Volume 168 No. 3

Oil, Paint and Drug Reporter

The Chemical Market Authority Since 1871

July 18 1955

JUL 18 1955

THE CHEMISTS' CLUB LIBRARY

"AA Quality" Chemicals

Backed by over 85 years' experience, AA QUALITY chemicals are noted for purity and uniformity. Inquiries solicited —your particular needs will receive prompt, co-operative attention. Write today for further information and samples.

THE AMERICAN AGRICULTURAL CHEMICAL COMPANY · AA QUALITY

TRISODIUM PHOSPHATE DISODIUM PHOSPHATE, Crystalline
PHOSPHORIC ACID 75% Food Grade
PHOSPHORIC ACID 85% N.F. Grade
PHOSPHORUS PENTASULPHIDE PHOSPHORUS SESQUISULPHIDE
PHOSPHORUS RED AMORPHOUS
AMMONIUM, MAGNESIUM, SODIUM and ZINC SILICOFLUORIDE
POTASSIUM SILICOFLUORIDE
SODIUM FLUORIDE and AMMONIUM FLUOBORATE
PHOS-FEED® BRAND DICALCIUM PHOSPHATE

PHONE OR WRITE CHEMICAL SALES DIVISION

The AMERICAN AGRICULTURAL CHEMICAL Co.
50 Church Street, New York 7 · BArclay 7-1400
P. O. Drawer 2458, Detroit 31, Mich. · VInewood 2-0146

SECONDARY ALKYLAMINES

DIETHYLAMINE DIBUTYLAMINE
DIPROPYLAMINE DI-SEC-BUTYLAMINE
DIISOPROPYLAMINE DIISOBUTYLAMINE
DIAMYLAMINE

For additional information, write to Dept. O:

Sharples Chemicals Inc. PHILADELPHIA · CHICAGO · NEW YORK

Baker BROMATES

Potassium Bromate, Purified, Powder
Sodium Bromate, Purified, Crystal
Potassium Bromate-Magnesium Carbonate 95-5% Mixture

Baker

J. T. BAKER CHEMICAL CO.
PHILLIPSBURG, N. J.
New York · Chicago · Philadelphia · Los Angeles · Toronto

HIGH QUALITY

SODIUM SULPHATE

(Rayon Grade)

PACKED IN 100-LB. BAGS

PRIOR CHEMICAL CORPORATION
420 LEXINGTON AVENUE
NEW YORK
CABLE: PRIORCHEM NEW YORK
PHONE: LExington 2-9811

PARA HYDROXY BENZOATES

Methyl, Ethyl, Propyl, Butyl and Benzyl esters

Pure and Technical Grades

R. W. GREEFF & CO., INC.
10 Rockefeller Plaza, New York 20, N. Y.
2205 Tribune Tower, Chicago, Ill.

borax · boric acid

EVERY FORM OF BORATES FOR EVERY POSSIBLE USE

OTHER BORATES
BORAX 5 MOL... a form of Sodium Tetraborate, newly available ... send for special bulletin.
ANHYDROUS BORAX
BORAX GLASS
ANHYDROUS BORIC ACID
AMMONIUM BIBORATE
AMMONIUM PENTABORATE
POTASSIUM PENTABORATE
SODIUM METABORATE
SODIUM PENTABORATE
ANHYDROUS RASORITE*

RASORITE SPECIAL CONCENTRATES*
FERTILIZER BORATES*
(Regular and High Grade)
*Sodium Borate Concentrates

HERBICIDES
BORASCU®*...BORASCU 44 CONCENTRATED BORASCU*
POLYBOR®
POLYBOR-CHLORATE ®

Information, Bulletins, Quotations, Sent Promptly on Request

Technical and U. S. P.: GRANULAR, CRYSTAL, POWDERED IMPALPABLE
Special Quality (C. P.—): GRANULAR, POWDERED

PACIFIC COAST BORAX CO.
DIVISION OF BORAX CONSOLIDATED LIMITED
NEW YORK · LOS ANGELES · CLEVELAND · CHICAGO

MANUFACTURERS OF FAMOUS "20 MULE TEAM" PACKAGE PRODUCTS

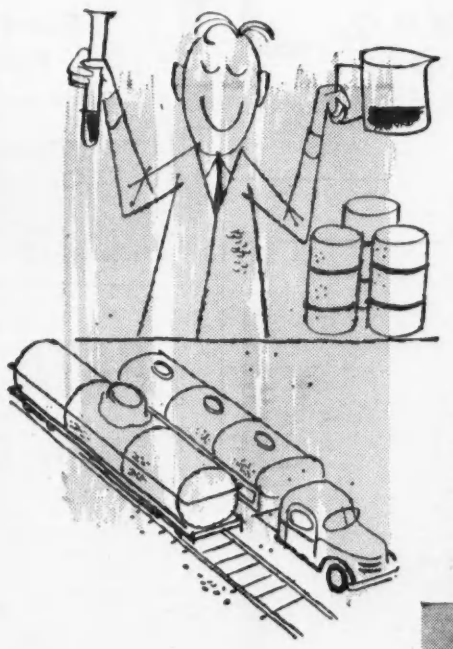
CARBIDE'S acetone

WHY YOU'LL WANT IT...

CARBIDE's acetone is high specification material, over 99.5% pure. Its purity, uniformity, and constant supply are assured because CARBIDE's acetone is produced synthetically. You should investigate the wide range of solvent uses for acetone. Write for the booklet, "Ketones" F-4767.

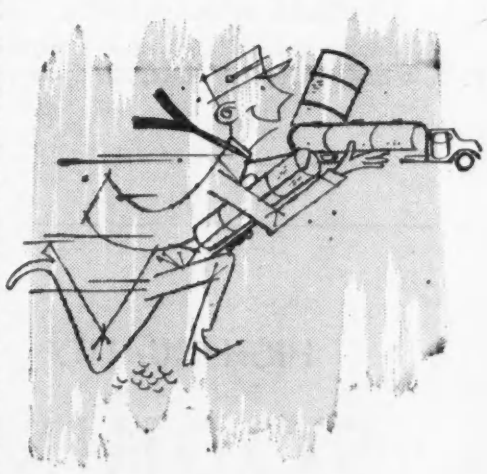
HOW YOU'LL WANT IT...

Delivery of CARBIDE's acetone can be made to suit your particular requirements in tank cars, drum carloads, tank trucks, truck loads, or single drums.



WHEN AND WHERE YOU'LL WANT IT...

Acetone is delivered from any of CARBIDE's forty-nine warehouses and eleven bulk stations. Their strategic locations save you time by giving you fast delivery, when and where you want it.



For Additional Information—

Just call or write any of CARBIDE's twenty-three sales offices for the latest prices or any other data you may need. In Canada: Carbide Chemicals Company, Division of Union Carbide Canada Limited, Montreal and Toronto.

CARBIDE AND CARBON CHEMICALS

Carbide and Carbon Chemicals Company
A Division of
Union Carbide and Carbon Corporation
30 East 42nd Street UCC New York 17, N. Y.

Oil, Paint and Drug Reporter

Volume 168 No. 3 | 30 Church Street, New York 7, N. Y. | July 18, 1955

RECEIVED
JUL 18 1955
THE CHEMISTS' CLUB
LIBRARY

Gov't Officials Hit Full Alien Property Return

Resolutions pending in the house for 100 percent return of properties formerly owned by enemy nationals and seized by the government during the war were opposed last week by the Department of Justice in testimony before the house foreign affairs committee. The State department, in testimony the previous week, also had objected to the measures.

The administration has its own proposal in congress for return of properties up to $10,000 to individuals of Germany and Japan, while at the same time enabling the government to sell seized corporations in advance of a determination of ownership. Corporations would not be eligible for a return of vested properties.

What Administration Bill Would Do

Assistant Attorney General Dallas J. Townsend, in charge of the Office of Alien Property, testified that the administration's bill would satisfy all the hardship claims and take care of about 92 percent of the aliens whose property was seized. The remaining 8 percent consists mostly of corporate claims, including General Aniline & Film Corporation, New York.

He estimated that the administration's bill would involve about $60,000,000 of claims, while the resolutions for 100 percent return of vested property would involve properties of more than $485,000,000. Mr. Townsend said that if congress adopts the administration bill the claims can be settled without an appropriation of congress, whereas if a full return is provided for an appropriation of about $275,000,000 will be necessary.

In a report to the Attorney General on operations of the Office of Alien Property during the first six months of this year,

—Continued on page 66

Copper Shortage Relief Goal of Federal Agencies

The Office of Defense Mobilization is canvassing with the Department of Commerce all means of easing the copper shortage brought on by the continued strike in the industry, including the possible revival of a system of priorities on use of the metal, officials of the agency stated last week.

The Business and Defense Services Administration has been requested by Arthur Flemming, director of ODM, to draw up a current report on stocks of copper available for civilian consumers together with estimates of the probable trend of demand over the remainder of the year. The Defense Mobilization Board is understood to have had the matter under consideration last week.

There are two sources of supply of copper available in emergencies—the na-

—Continued on page 54

FDA Funds Increase Is Aim Of New Measure in House

Rep. Leonor K. Sullivan of Missouri last week introduced legislation in the house to add $1,096,800 to this year's appropriations for the Food and Drug Administration as a start towards raising the agency's budget to around $20,000,000 annually within the next five or ten years in accordance with recommendations of the Citizens Advisory Committee (OPD, 7/11/55).

The bill (H. R. 7287) is the first legislative move to give effect to the recommendations, but it appears unlikely that it will be acted upon in the absence of any recommendations of the Bureau of the Budget. The bill has been referred to the committee on appropriations, which seldom if ever approves supplemental appropriation requests, such as this, without first obtaining Budget bureau approval.

Mrs. Sullivan said that the advisory committee made clear all through its report that this expansion in the funds and personnel of the FDA was urgent. It made clear that legitimate, responsible business, including the major food, drug and cosmetic firms in this country, endorse the work of the FDA and value the protection of this agency.

"Therefore," she added, "let us not fool around for another year on this matter, as was done last year. I hope the Secretary of Health, Education and Welfare will

—Continued on page 66

Mrs. Hobby Leaves HEW; Folsom Named Successor

Mrs. Oveta Culp Hobby resigned as the first Secretary of Health, Education and Welfare last week and President Eisenhower named Marion B. Folsom, under Secretary of the Treasury, as her successor, effective August 1.

Mrs. Hobby said she was resigning because of the illness of her husband, William P. Hobby, former Governor of Texas, and denied that she had been "forced" to quit because of the criticism that had come about through the handling of the Salk anti-polio vaccine by her department. Mrs. Hobby's successor, formerly treasurer and director of Eastman Kodak Company, was one of the architects twenty years ago of the social security system.

Antitrust Position Filled

Edward A. Foote has been appointed first assistant to assistant Attorney General Stanley N. Barnes, head of the Antitrust Division of the Department of Justice. Mr. Foote has been in the Justice department since June 6, 1954, as a confidential assistant to Mr. Barnes.

House, Senate Groups Okay Free Polio Shots; Control Funds Voted

House and senate committees gave approval to legislation last week to provide free Salk polio vaccine shots to all children under twenty years of age and expectant mothers, while the appropriations committee voted $5,200,000 to the Public Health Service and the Food and Drug Administration for control work in the vaccine program.

At the same time, the Department of Health, Education and Welfare announced release of about 720,000 cc's of additional polio vaccine, bringing to a total of approximately 2,558,000 the number of shots made available since adoption of the revised testing requirements on May 26. This latest release was vaccine produced by Eli Lilly & Co., Indianapolis, Ind.

Bills Differ on Details

The bills approved by the house and senate committees have the same aims of providing free vaccine, but differ in details. Both are compromises of earlier proposals and leave to the states the determination of who shall get free vaccine. One bill is H. R. 7126 by Rep. J. Percy Priest of Tennessee, chairman of the interstate commerce committee, and the other is a bill drafted by the senate labor committee.

The senate bill allots funds to states through an extension of grants now made by the Public Health Service and if the states decide to give free shots to all children, the bill then allows the operation providing congress votes sufficient funds. If congress fails to appropriate sufficient funds for all children and expectant mothers, public health law provisions for state allotments on a population and need basis will operate.

The Priest bill in the house specifies no definite amount of federal funds and requests that the states match the funds put up by the federal government to take care of needy children (OPD, 7/4/55). Both the senate and house bills forbid a "means" test in offering the vaccine free to the needy.

Funds Voted in Three Parts

The funds voted by the appropriations committee were in three parts—$300,000 to the Food and Drug Administration for enforcement connected with distribution of the polio vaccine; $4,500,000 to the Public Health Service for grants to states for planning and operating a program for distribution and use of polio vaccine, and $400,000 to the National Institutes of Health for an additional animal building to house the monkeys used in the vaccine tests.

The funds voted for the FDA are earmarked for work in the polio program

—Continued on page 39

Tax Amortization Program Slated For Slow-Down in Months Ahead

The government's program of providing tax incentives to industry to expand for national defense by permitting fast tax write-offs of costs of new facilities is moving for a slow-down in the coming months, it was indicated last week.

An overall study of the tax amortization program, which has been under way for some time by the Office of Defense Mobilization, was reviewed at a meeting last week of the Defense Mobilization Board and a decision on whether to terminate or restrict the issuance of tax certificates is expected in a few weeks. An abrupt halt in the program is not looked for.

As for expansions in the productive facilities of the chemical industry, the program of issuing tax amortization certificates to cover these investmen s has been tapering off for many months. Today there are less than half a dozen expansion programs in this industry still open and no real effort is being made to push them to completion.

Program Used for Replacements

A subcommittee of the house government operations committee has been making an investigation of the tax amortization program and last week heard testimony that the railroads had been using the certificates to accelerate the write-offs of costs of new freight cars which were used as replacements.

Members of the committee questioned the propriety of this situation and Rep. Robert H. Mollohan of West Virginia, chairman, intimated he might introduce legislation to penalize any who used the accelerated amortization benefits for replacements rather than expansions.

It later developed, however, that there was a rule against using the benefits for replacement, but that an exception had been made in the case of the railroads. Instances where new facilities given fast write-offs were used to replace other facilities in other than the railroad industry were reported to be very few.

The purpose of the tax amortization program, it was emphasized, was to encourage industries to expand their productive facilities for national defense. The tax certificates enabled a company which built new plants or acquired new facilities to lower its income tax payments during the early years of the life of the project by charging off a larger portion to cost than would normally be allowed under the tax laws.

Freight Car Expansion

In testimony before the committee, Arthur D. Flemming, director of ODM, stated that an "expansion" goal of 436,000 new freight cars had been set by the end of this year and up to the present time tax amortization certificates had been issued for 330,000 of them.

Rep. Mollohan stated, however, that instead of "expanding" the supply of freight cars the number of cars on hand today are 31,000 fewer than on January 1, 1950. The railroads purchased 310,853 freight cars between January 1, 1950, and June 1, 1955, he said, but they also retired 342,287 cars during the same period.

He expressed grave doubts that the tax amortization program was producing any "expansion" in the supply of railroad freight cars, while another committee member noted that between 1945 and 1949 the railroads purchased 330,000 new cars without benefit of accelerated amortization as against only 310,000 cars since 1950, when they were eligible for fast write-offs.

WOC-Men's Activities Seen Curbed in New Legislation

Congressional curbs on the activities of industry men serving without compensation (WOC-men) for limited periods of time in important government jobs last week appeared almost certain to be included in any legislation that goes to the White House to extend the life of the defense production act.

Administration spokesmen were reported to be ready to accept some restrictions on the use of this group of workers, but insisted that congress not go as far as the senate banking committee recommendation that no WOC employee could serve as head of a bureau or government division. The bill, S. 2391, extending the defense production act for two years, is scheduled for senate consideration tomorrow.

At hearings before the house banking committee last week, Arthur Flemming, director of the Office of Defense Mobilization defended the use of WOC-men and urged the committee not to follow the lead of the senate committee. He expressed the willingness to accept a provision writing into law the Truman proclamation, controlling the use of WOC-men in government, and also a provision that WOC employees may only give advice on policy matters and not make policy.

Meanwhile, a study of the activities of WOC-men is being made by the Department of Justice, but officials attempted last week to minimize the importance of the inquiry. They said a study is being made of operations of the voluntary agreements negotiated under the DPA act and the activities of WOC employees in connection with these agreements are being looked into only incidentally. The study of voluntary agreements, it was added, is required to be made annually.

Oil-Shale Facility Ordered Placed in Standby Condition

The house appropriations committee last week slashed in half a budget request of the Bureau of Mines for $1,250,000 for continued operation of the oil-shale plant at Rifle, Col., and directed that the plant be put in standby condition until it can be disposed of as surplus property. The committee allowed $625,000 for this purpose.

It was explained in the committee report that no estimate had been included in the regular budget for operation of the plant because the Department of the Interior proposed to put it in standby on the advice of the Secretary's own survey team, and on assurances from the National Petroleum Council that private industry was ready to proceed with development of oil shale as a fuel source.

The supplemental request for continued operation of the plant, it was added, was supposedly made necessary by roof failures in the shale mine during February and March and the bureau claimed that this means that more research in mining methods is necessary.

During hearings before the appropriations committee, it developed that Union Oil Company of California had announced that it is starting an experimental oil-shale operation with a retort of its own design on a larger scale than the bureau's operation. Therefore, the report added, it was the committee's opinion that a continuation of government-financed research in this field is not now justified in view of industry readiness to proceed with development work.

Air Pollution Bill Is Signed

President Eisenhower signed the air pollution research bill, S. 928, into law July 14. The bill provides for cooperation with the states and industries and authorizes an appropriation of $5,000,000 annually over the period. It is expected that before congress adjourns, the President will ask that the first $5,000,000 installment be appropriated so that the program can be started promptly.

FTC Is Given More Power Over Mergers in Celler Bill

Rep. Emanuel Celler of New York, chairman of the house judiciary committee, last week introduced a bill (H. R. 7229) in the house to strengthen the authority of the Federal Trade Commission to curb industrial mergers.

The bill gives the commission the right to seek an injunction or restraining order from the courts to prevent the merging of two corporations which the commission has reason to believe might be in violation of the Clayton act. The injunction would remain in force until the commission could complete its study and determine whether the merger conformed to law. The commission would also be empowered to dissolve mergers which later proved to be unlawful.

SCI Chooses Davidson As Its 1955 Medallist

The American section of the Society of Chemical Industry has chosen Dr. Joseph G. Davidson, vice-president of Union Carbide & Carbon Corporation, New York, to receive its 1955 chemical industry medal

Dr. Joseph G. Davidson

"for conspicuous services to applied chemistry."

Formal presentation of the medal to Dr. Davidson will be made at a dinner meeting October 28 at the Waldorf-Astoria hotel, New York. Raymond Stevens, chairman of the American section and vice-president of Arthur D. Little, Inc., Cambridge, Mass., will preside at the award meeting, and Dr. Clifford F. Rassweiler, past chairman of the American section and vice-chairman of the board of directors of Johns-Manville Corporation, will present the medal.

Dr. Davidson began his professional career at Mellon Institute of Industrial Research, Pittsburgh, Pa., as an industrial fellow on the fuel fellowship. In 1923 he joined the organic synthesis fellowship of Carbide & Carbon Chemicals Company as senior fellow. This fellowship at that time was concerned with basic research on the use of olefinic gases produced from crack-

—Continued on page 66

Contents of This Issue

Association News

ACS Meeting Set for Minneapolis..... 7
Chemical Industry Ass'n Elects First..... 7
Newcomb Is Out of NWDA..... 7
Petroleum Council Defers Meeting..... 7
SCI Chooses Davidson as Medallist..... 4
Society of Chemical Industry Unit Elects.... 7

Government News

AEC to Sell First Electric Energy..... 60
Air Pollution Bill Signed..... 3
Antitrust Position Filled..... 3
Asphaltic Product Duties Slated to Rise..... 7
Copper Shortage Relief Sought..... 3
FDA Funds Increase Sought..... 3
FTC Given More Power..... 3
Mrs. Hobby Leaves HEW..... 3
House, Senate Groups Okay Shots..... 3
Oil-Shale Plants Ordered in Standby..... 3
President Hits Roadblock..... 5
Sebrell to Retire from NIH..... 4
Submerged Lands Leases Bring Returns.... 42
Tax Amortization Slow-Down Seen..... 3
WOC Mens' Activities Seen Curbed..... 3

Industry News

ADM Expands Facilities..... 59
Ammonia Plant Planned by Phillips Pacific. 5
Borax Prices Move Up Sept. 1..... 4
Business in April, 1955..... 7
Celanese Chemical Unit Planned..... 5
Chemical Producers Service Buys Plant..... 38
FTC Policy on Export Associations..... 5
Fatty Acid Output Reported for May..... 7
Goodrich-Gulf Picks Morgan..... 40
Gulf Starts Ethylene Output..... 4
Hercules Plans Modernization..... 4
Hydrocarbon Waxes Sold by Strohmeyer.... 59
Koppers Awarded Contract..... 52
Int'l Minerals Plans Building 40
Liquid Carbonic Sells Unit..... 42
Nat'l Starch Begins Labs Addition..... 48
Ninol Upgrades Detergents..... 5
Olin Mathieson Gets Brown Paper Mill..... 5
Pesticide Tolerance Rules Amended..... 39
Pitts. Coke Unit Adds Items..... 45
Polyethylene Plant Operating..... 4
Stein Hall Sets Up Labs..... 59
Sulfur Development Told by Stauffer..... 37
Sulfuric Acid Facilities Scheduled..... 5
Urea Facility Planned..... 5
U. S. Testing Publishes Book..... 48
Western Phosphates Planning Expansion.... 5

International News

Aluminum, Nickel Quotas Set..... 38
Concannon to Head Pakistan Fair Unit..... 7
Diamond Alkali Organizes Subsidiary..... 5
Ethanolamine Project Slated..... 4
Europe Seen Doubling US Chemical Rate.. 7
India Seeking Oil Plant Location..... 4
Intermediate Imports Drop..... 5

Personnel News

J. T. Baker Adds Three to Staff..... 54
Campbell Names Kersten..... 42
Chipman Makes Bales V.P..... 60
Colgate-Palmolive Elects..... 4
Continental-Diamond Elects Lux..... 60
Hatcher, von Dielingen Named Stepan V.P.'s 7
J. M. Huber Promotes Rives..... 59
MM&R Appoints Agent..... 54
Nopco Chemical Names Brewer..... 42
Olin Mathieson Makes Foster Vice-President 5
Pfizer Appoints D'Antonio..... 40
Pitts. Plate Appoints Three..... 59
Pletcher Elected Penick Vice-President..... 5
Quaker Appoints Barker..... 52
Sonneborn Appoints Baer..... 39
United States Potash Names Gordon..... 48
U. S. Rubber Co. Elects..... 45
Witco Makes Rojas a V.P..... 54

Market Reports

Acids 35
Agricultural Chemicals..... 55
Aromatic Chemicals..... 53
Botanical Drugs, Gums..... 47
Coal Chemicals..... 44
Drugs 47
Essential Oils..... 53
Fats and Greases..... 61
Fertilizer Materials..... 55
Fine Chemicals..... 47
Heavy Chemicals..... 36
Industrial Organic Chemicals..... 40
Lacquer Materials..... 57
Leather Chemicals..... 56
Naval Stores..... 57
Oil Cake and Meal..... 61
Oils 61
Paint Materials..... 57
Pesticides 55
Petrochemicals 40
Petroleum Derivatives..... 43
Protective Coatings Materials..... 57
Spices 53
Textile Chemicals..... 56
Waxes 61

General Features

Advertisers Index..... 67
Association Meeting Dates..... 7
Bids Wanted..... 38
Classified Advertisements..... 66
Consulting Chemists and Engineers..... 62
Coal Chemicals Output..... 45
Crude Oil Stocks..... 43
Current Market Quotations..... 9
Editorials 34
Imports 50
Obituaries 52
OPD Price Index..... 4
Washington Talks It Over..... 34

Price Index Is Strengthened

The overall OPD price index moved up last week by 0.10 point to stand at 106.88.

The feature of the oils, fats and waxes market was the continued strength in tallow and greases. Improved demand for export and short covering advanced quotations fractionally. Trading was fairly active, with offers for nearby delivery scarce and held at an additional advance.

Cheaper new crop oil weakened edible oils. Cottonseed, corn and soybean oils were sharply lower. Trading in these grades was light. Crude peanut was also easier, but nominal owing to the scarcity of supplies. Cottonseed meal was up.

The drugs, fine chemicals and botanicals report noted a reduction for USP riboflavin, the first change in this material since December of 1952. The menthol market continued in the summer doldrums, with consumers buying on a hand-to-mouth basis. The textile and leather chemical group was steady with the exception of egg albumin flake, which moved down 1 cent per pound.

Ethyl silicate, 40 percent SiO_2, was reduced 3 cents per pound, while tetraethyl orthosilicate came down 2½ cents per pound. Otherwise, the price pattern for industrial organics was undisturbed. Changes which had been made July 1 were now a part of the market.

The essential oils, aromatics, and flavorings section noted a decline for cedarwood oil, and advances for sandalwood, spearmint and Florida orange oils. Sandalwood oil advances were attributed to the continued scarcity of the oil on spot and the likelihood of further price rises in the near future. The reversal in the downward trend which had featured Florida orange oil for so long came as no surprise to most trade quarters, since it had been believed for some time that when demand began to cilmb, prices would follow. The recent declines in the seeds and spices market had a restraining influence on sales.

The mercury market plunged lower, it was noted in the heavy chemicals report. Tin, on the other hand, was higher, and reached new highs for the year during the week.

Fishmeal and fishscrap were up among agricultural chemicals, while this group witnessed reductions in ammonia liquor and bonemeal. Coumarone and petroleum hydrocarbon resins were advanced by a producer while the protective coatings market generally remained steady. Shellac prices maintained a firm undertone because of the attitude on the part of principals in India. Argentine casein was firm.

Prices Advanced

Acid, oleic, ½c. per lb. (61).
Stearic, ½c. per lb. (61).
Tallow, fatty, ½c. per lb. (61).
Cardamom seed, decorticated, Guatemalan, 15c. per lb. (53).
green, Ceylon, 10c. per lb.
Coriander seed, Roumanian, ½c. per lb. (53).
Yugoslavian, 1c. per lb.
Cottonseed meal, $2 per ton (61).
Fennel seed, Indian, 1c. per lb. (53).
Fishmeal, $2.25 per ton (55).
Fishscrap, $1 per ton (55).
Greases, ½c. per lb. (61).
Laurel leaves, Turkish, 1c. per lb. (53).
Mace, East Indian, siftings, 7c. per lb. (53).
West Indian, whole, 5c. per lb.
Oil, grease, ¼c. to ¾c. per lb. (61).
Orange, Florida, 2c. per lb. (53).
Palm kernel, ¼c. per lb. (53).
Sandlwood, 25c. per lb. (53).
Spearmint, 25c. per lb. (53).
Tung, ¼c. per lb. (61).
Potassium stannate, 0.7c. per lb. (36).
Silver, ⅜c. per oz. (36).
Nitrate, ½c. per oz. (47).
Sodium stannate, 0.9c. per lb. (36).
Soybean meal, $2 per ton (61).
Stannic chloride, 0.9c. per lb. (36).
Oxide, 2½c. per lb.
Stannous chloride, anhyd., 1.2c. per lb. (36).
hydrous cryst., 1c. per lb.
Sulfate, 1.2c. per lb.
Tallow, ½c. per lb. (61).
Tin, 1½c. per lb. (36).

Prices Reduced

Ammonia liquor, $3 per ton (55).
Bonemeal, $2.50 per ton (55).
Celery seed, French, 1c. per lb. (53).
Cinnamon, ceylon, No. 2, 2c. per lb. (53).
Clove, Madagascar, 1c. per lb. (53).
Copra, $5 per ton (61).
Egg, albumin, flake, 1c. per lb. (56).
Ethyl silicate, 40% SiO_2, 3c. per lb. (40).
Ginger, African, 1c. per lb. (53).
Jamaican, 1c. per lb.
Lard, 1.5c. per lb. (61).
Mercury, $5 per flask (36).
Nutmeg, East Indian, 1c. per lb. (53).
West Indian, ½c. per lb.
Oil, cedarwood, 10c. per lb. (53).
Coconut, crude, ¼c. per lb. (61).
Corn, crude, ¾c. per lb. (61).
refd., ¾c. per lb.
Cottonseed, crude, ½c. per lb. (61).
refd., ½c. per lb.
Peanut, crude, ¼c. per lb. (61).
refd., ¼c. per lb.
Soybean, crude, ¼c. per lb. (61).
refd., ¼c. per lb.
Pimento, Mexican, 1c. per lb. (53).
Riboflavin, USP, $20 per kilo (47).
Tetraethyl orthosilicate, 2½c. per lb. (40).
Thyme, French, 1c. per lb. (53).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100=1949 average)

July 15, 1955	July 8, 1955	July 16, 1954
106.88	106.78	106.80

Indian Gov't Weighing Site Of First Synthetic Oil Plant

The Indian government is now considering where to put its first synthetic oil plant, with the likelihood that it will be in either West Bengal or Bihar, according to the Department of Commerce.

Both West Bengal and Bihar, it was pointed out, have abundant supplies of coal and water, important factors in the selection of the plant's location. Before making its final decision, however, the Indian government will review project reports to be submitted by experts from an American firm and from two German concerns no later than October. These experts are expected to visit India soon.

A government-appointed synthetic oil committee recommended last January the establishment of a plant capable of producing 300,000 tons of synthetic oil a year at the start. The committee estimated the cost of the unit at between 520,000,000 and 570,000,000 rupees (US$109,200,000-$119,700,000).

Borax, Boric Acid, Borates Prices Will Move Up Sept. 1

Pacific Coast Borax Company, division of Borax Consolidated, Ltd., New York, today announced price increases effective September 1 on borax, boric acid and borate compounds. According to J. F. Corkhill, vice-president in charge of sales, increases on bulk prices amount to $1 per ton on ten mol borax, $1.25 per ton on five mol borax, and $1.50 per ton on anhydrous borax, anhydrous "Rasorite" and boric acid. Bag prices are increased uniformly $1 per ton over the above bulk price increases. This is the first price increase in borate products since May of 1953.

Polyethylene Unit Operating

Dow Chemical Company's new plant for the production of polyethylene molding and extrusion materials is now in full commercial production at Freeport, Tex. The new facility uses a process under license from Imperial Chemical Industries, Ltd. Refinements and design changes have been introduced in both the process and equipment, however, as a result of Dow's research and pilot plant studies.

Hercules Plans Modernization Of Its Utah Dynamite Facility

Plans for a $2,000,000 expansion and modernization of its Bacchus, Utah, dynamite plant were announced last week by Hercules Powder Company, as part of a project which will terminate dynamite production at Hercules, in Contra Costa County, Calif., and devote that plant to the manufacture of nitrogen products and other chemicals.

The move will be made gradually over the next twelve to eighteen months, the company said, and is designed to make the Utah plant one of the most modern explosives manufacturing units in the country. Additional storage magazines will be constructed in strategic west coast areas to service explosives customers now served by the California plant.

Construction of new facilities and modernization of the present Utah plant will be under way by early fall, with completion scheduled by next summer or the

—Continued on page 51

Colgate-Palmolive Elects William L. Sims President

Colgate-Palmolive Company, Jersey City, N. J., last week elected William Lee Sims, 2nd, president. E. H. Little, chairman of the board, will continue as chief executive officer of the company. Ralph A. Hart was chosen vice-president of the company and was named to succeed Mr. Sims as president of Colgate-Palmolive International.

Ethanolamine Project Slated

Dow Chemical of Canada, Ltd., will build a million dollar ethanolamine plant at Sarnia, Ont., according to N. R. Crawford, president. Most Canadian requirements of the material are now imported from the United States, the company stated.

Sebrell Will Retire as Director Of NIH; Shannon Given Post

Assistant Surgeon General William H. Sebrell, director of the National Institutes of Health, will retire from the Public Health Service on August 1 after thirty years of service. He will be succeeded as head of the NIH by Dr. James A. Shannon, presently associate director of the institutes, Dr. Sebrell, meanwhile, will become a research consultant for the American Cancer Society in charge of its institutional research grants program.

Dr. Shannon has been associate director of NIH since 1952. Previously, he was associate director in charge of research at the National Heart Institute.

Alcohol Purchase Contract Signed by Koppers, Gov't

Federal Facilities Corporation last week stated that it had signed a contract with Koppers Company, Pittsburgh, Pa., to buy 3,800,000 gallons of government-owned fermentation alcohol in storage at Kobuta, Pa.

Negotiations are continuing with several other companies for purchase of the remaining 6,800,000 gallons, which were offered for sale June 13 by the corporation to the highest bidders. Officials expect to sign contracts covering this alcohol in a week or ten days.

Gulf Starts Up Ethylene Installation at Port Arthur

Gulf Oil Corporation has started up operations at its new ethylene plant at Port Arthur, Tex. The facility has an annual capacity of 3,000,000,000 cubic feet of ethylene gas, more than doubling the refinery's present capacity and bringing it to a total of nearly 5,500,000,000 cubic feet. Construction began in the spring of last year. Gulf Oil declined to disclose the cost of the new installation.

Oil, Paint and Drug Reporter, Vol. 168, No. 3, July 18, 1955. Published every Monday by Schnell Publishing Company, Inc., 30 Church Street, New York 7, N. Y., U. S. A. Subscription prices—United States and possessions, $5 a year; Canada and Newfoundland, $7; other countries, $10. Entered as second-class matter, January 15, 1884, at the New York Post Office under the act of March 3, 1879.
Copyright, 1955, by Schnell Publishing Company, Inc.

Intermediate Imports Drop Sharply in 1954

Imports of coaltar intermediates last year totaled 8,600,000 pounds, with a foreign invoice value of $4,500,000, against 1953 imports of 22,300,000 pounds, valued at $5,400,000, and 1952 imports of 3,000,000 pounds, valued at $1,700,000, the Tariff Commission reported last week.

The very large decrease in the quantity of intermediate imports in 1954, compared with 1953, was due primarily to greatly reduced imports of phthalic anhydride (681,000 pounds in 1954 compared with 16,700,000 pounds in 1953). About three-fourths of all imports of intermediates last year came from Germany and the United Kingdom. Sizable quantities also came from the Netherlands and Switzerland.

Imports of finished coaltar products dutiable under paragraph 28 of the tariff act of 1930 (dyes, medicinals and pharmaceuticals, flavor and perfume materials, etc.) totaled 5,100,000 pounds, valued at $8,700,000 (foreign invoice value). This compares with imports of $4,100,000 pounds, valued at $6,900,000, in 1953.

Dye Imports Again Heavy

As in previous years, dyes were by far the most important group of finished coaltar products imported in 1954, accounting for $5,800,000, or 67 percent of the total foreign invoice value of all imports under paragraph 28. In 1953, imports of dyes were valued at $4,600,000. Last year, Germany was the principal supplier of dyes, accounting for 55 percent of total dye imports (based on computed weight).

Medicinals and pharmaceuticals were the next most important group of products imported under paragraph 28. In 1954, imports of these products were valued at $2,200,000, or 25 percent of the total foreign invoice value of all imports under paragraph 28. Both in 1952 and 1953, imports of medicinals and pharmaceuticals were valued at $1,900,000.

Imports of flavor and perfume materials increased in value to $326,000 in 1954 from $194,000 in 1953 and $18,000 in 1952. Imports of other coaltar products entered under paragraph 28 were $364,000 in 1954, compared to $192,000 in 1953 and $584,000 in 1952.

Olin Mathieson Purchases Brown Paper Mill Company

Olin Mathieson Chemical Corporation, New York, has more than doubled its timber resources by acquiring the Brown Paper Mill Company, West Monroe, La., with its 465,000 acres of pine and hardwood timberland, Thomas S. Nichols, president of Olin Mathieson, has disclosed.

The Brown forests are located in Louisiana, east Texas and Arkansas, adjacent to Olin Mathieson's 435,000 acres of timberland in those three states. Acquisition of the Brown properties will thus increase Olin Mathieson's total timber property to 900,000 acres. Mr. Nichols said the purchase will permit the company's forest products operations to be accelerated.

Brown Paper Mill Company and its associated corporations were purchased for $50,000,000 in cash and 725,000 shares of Olin Mathieson common stock—a total of approximately $90,000,000 at recent market values for the shares. Legal details of the transaction should be complete within about sixty days, it was said.

Urea Output to Be Started Next Year in West by Shell

An increased supply of urea will be available to west coast farmers as the result of a new urea plant Shell Chemical Corporation is planning to build at Ventura, Calif., according to an announcement by George R. Monkhouse, vice-president of Shell Chemical. The plant will be the first west of the Rockies. Construction will start shortly and the plant will be in operation by September, 1956.

The facility will have a capacity of more than 100 tons a day. It will secure its raw materials, ammonia and carbon dioxide, from the adjoining Shell ammonia plant at Ventura.

Ninol Upgrades Detergents

Ninol Laboratories, Inc., Chicago, has developed a new series of alkylolamide detergents which is said to have higher foam stabilizing and thickening properties. Called the Ninol "Extra" series, the new products are the result of a modification of Ninol's basic detergent process whereby the amide content of the amine condensates are increased to about 90-95 percent and most of the other components are eliminated.

Penick Vice-President

Harold E. Pletcher has been elected a vice-president of S. B. Penick & Co., New York. Mr. Pletcher will continue to be responsible for manufacturing operations of both the Penick company and its subsidiary, New York Quinine & Chemical Works, Inc. Before joining the Penick organization in 1951 as assistant production manager, he was associated with the Ansco Division of General Aniline & Film Corporation. He was made production manager last year.

Celanese Chemical Unit Is Set for West Virginia

Celanese Corporation of America, New York, will shortly begin construction of the first unit of a new chemical manufacturing plant at Gallipolis Ferry, W. Va., according to R. W. KixMiller, vice-president in charge of the chemical division.

The new plant, to be built on the 412-acre land site purchased by the company in 1951, will produce plasticizers for the coatings and plastics industries; fire-retardant hydraulic fluids and compounds for the automotive, aircraft and other industries; and a range of intermediate products for general industry. It is anticipated that construction work will start in October. A target date of April, 1956, has been selected for the inauguration of chemical production operations.

Ammonia Plant to Be Built By Phillips Pacific Chemical

Phillips Pacific Chemical Company, recently formed and jointly owned by Phillips Petroleum Company, Bartlesville, Okla., and Pacific Northwest Pipeline Corporation, has announced plans to build an ammonia fertilizer plant in southeastern Washington.

The initial unit of the new plant will produce 200 tons of anhydrous ammonia per day. Start of operations is expected late in 1956, enabling the producers to supply distributors in the area with fertilizer for the spring season of 1957.

Olin Mathieson Makes Foster An Executive Vice-President

Olin Mathieson Chemical Corporation, New York, has chosen William C. Foster to become an executive vice-president of the concern, effective August 1. Mr. Foster, who steps down as president of the Manufacturing Chemists' Association at the end of this month, is a former deputy Secretary of Defense. The new Olin Mathieson executive will headquarter in New York.

Mr. Foster had completed nearly eleven years of government service when he

William C. Foster

resigned as deputy Secretary of Defense in January, 1953, to become MCA's first full-time president. Previously he served as head of the Marshall Plan with cabinet rank and the title of administrator for economic cooperation; under Secretary of Commerce; deputy United States special representative in Europe for the Economic Cooperation Administration, with the rank of Ambassador Extraordinary and Plenipotentiary, and deputy administrator of ECA.

Mr. Foster came to government from business in 1942. He had formerly been president of the Pressed & Welded Steel Products Company of Long Island City, N. Y., and a director of that and other corporations. He is a member of the Business Advisory Council of the Department of Commerce and a trustee and member of the research and policy committee of the Committee for Economic Development.

Western Phosphates Planning Fertilizer Capacity Expansion

Western Phosphates, Inc., will expand its multi-million dollar ammoniated phosphate and treble superphosphate plant at Garfield, Utah, and plans to have the work completed early in 1956. According to Hans Stauffer, president, the expanded facilities are required to meet the heavily increased demand for phosphate fertilizers in the western area, despite the fact that the present plant is currently operating 120 percent of rated capacity.

President Hits Roadblock to Ending Of Commercial Activities by Gov't

Provisions written into the appropriation bill for the Department of Defense, giving the senate and house appropriations committees authority to veto plans of the secretary to terminate commercial type activities, were blasted last week by President Eisenhower.

While announcing that he was signing the appropriation bill into law because the funds which it makes available are urgently needed, the President stated that, nevertheless, he was not acquiescing in section 638 to the extent that the section seeks to give the committees authority to veto or prevent executive action.

He said that he had been advised by the Attorney General that the section constitutes an unconstitutional invasion of the province of the executive. On that basis, he added, the section will be regarded as invalid by the executive branch of the government unless determined otherwise by a court of competent jurisdiction.

Aimed at Blocking Dep't Plans

The section was put in the bill first by the house and approved in modified form later by the senate to block plans of the Defense department to end a number of its activities that have been sources of complaint from private industry. It requires that any activity which, for three years or more, has been carried on by civilian employees of the department, may not be terminated without giving the congressional committee ninety days' advance notice.

Congressmen expressed the fear that unless restrictions were imposed on the department, it was possible that the work of ship construction and repair performed in the navy shipyards would be transferred to private industry and throw thousands of government workers out of jobs.

Termination Programs to Continue

When the curb was placed in the bill by the house committee, the Defense department immediately stopped all its programs for terminating commercial activities until the situation could be clarified. In view of the President's announcement to congress, instructions are now being drawn up to reactivate the old orders and go ahead again with the termination programs. This includes the plans for ending paint manufacturing by the navy by August 1.

It has not been decided definitely, but it is believed probable that the department will inform the committees of the program being terminated in accordance with the ninety-day clause in the section, but will ignore any objections made by the committees if it does not regard them as being valid or meritorious.

FTC Policy on Export Pricing Being Changed

The Federal Trade Commission last week notified export trade associations established under the Webb-Pomerene law that they must terminate any price-fixing arrangements they may have with foreign competitors in foreign markets or face the prospect of antitrust prosecution under the Sherman act.

The warning was contained in a letter to an undisclosed export association and marked the first major shift in policy relative to law enforcement against the foreign activities of these organizations in thirty years. The Webb-Pomerene law permits industries to organize into cooperative export associations to compete in foreign markets with foreign suppliers.

Keystone of Former Policy

Until last week's announcement by FTC, enforcement under the Webb-Pomerene act has been governed by a statement of policy enunciated in 1924 in the Silver letter that:—" . . . there is nothing in the act which prevents an association formed under it from entering into any cooperative relationship with a foreign corporation for the sole purpose of operation in a foreign market. The only test of legality in such an arrangement would be the effect upon domestic conditions within the United States."

In its new letter last week, FTC stated that "a reappraisal of traditional commission attitudes is overdue" and concluded that the legislative history of the Webb-Pomerene law "strongly argues against any exemption" of price-fixing arrangements with foreign competitors.

This conclusion, said the commission, was bolstered by the recent court decision in United States v. the U. S. Alkali Export Association, and United States v. Minnesota Mining & Manufacturing Company. The price fixing arrangement involved here, the commission added, was not the type of activity which the Webb-Pomerene act was intended to insulate from the Sherman act.

Would Go Outside Act's Meaning

"Insofar as an export association enters into restrictive agreements with foreign competitors," the commission said, "those agreements will not be considered 'in the course of export trade' within the meaning of the Webb act and their lawfulness will be determined according to traditional Sherman act criteria, as would similar conduct by an individual exporter. Whatever privileges the Webb act extends to association activities 'in the course of export trade' would be removed."

Although the removal of Webb act exemptions from such activities did not "automatically invalidate them," the commission pointed out that under prevailing interpretation of the Sherman act the practice was "suspect." If the practice is not abandoned within thirty days, therefore, the commission stated that the association's file will be referred to the Department of Justice for evaluation of Sherman act violations and appropriate action.

Diamond Alkali Organizes New Puerto Rico Subsidiary

Diamond Alkali Company, Cleveland, Ohio, last week announced the formation of Diamond Chemicals of Puerto Rico, Inc., at Hato Rey, a suburb of San Juan. The new firm will operate as a subsidiary of Diamond Alkali, with Miles H. Fairbank, Inc., of Puerto Rico holding a minority interest.

Scheduled to begin operations in about thirty days, the company will formulate an expanding line of detergents and cleaning compounds. First product to be manufactured and marketed will be a sodium hypochlorite bleach. All present and future products will be distributed and sold under the subsidiary's own brand names.

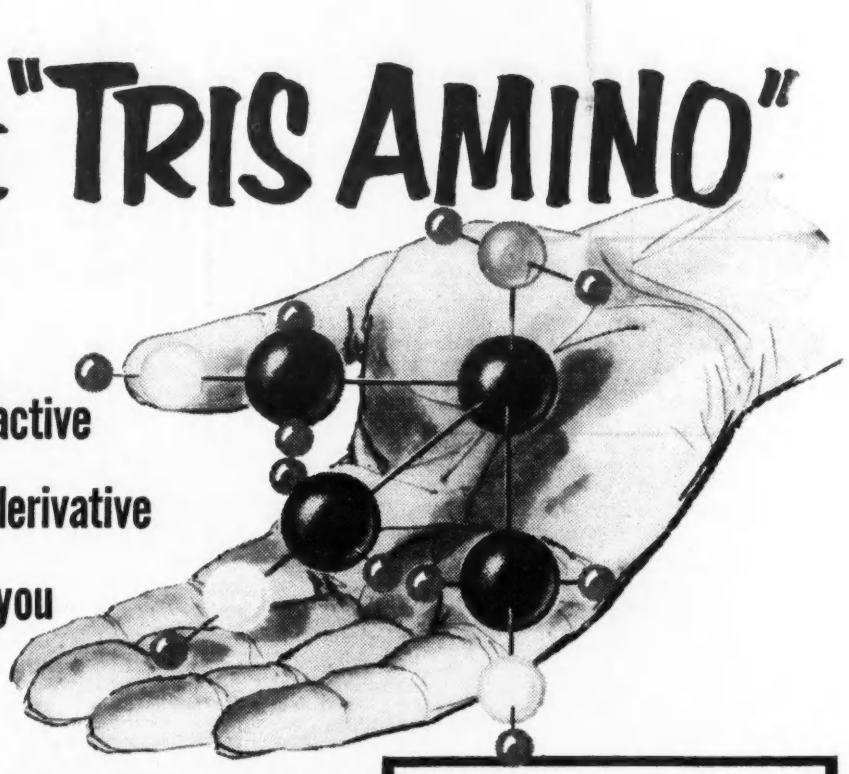
S. S. Savage, president of Diamond Alkali Inter-American Corporation and Diamond Alkali International, Inc., Diamond's export subsidiaries, will be chairman of the new concern. Miles H. Fairbanks, since 1949 manager of the firm that bears his name, will be president.

Sulfuric Acid Installation Is Projected by Cornwell

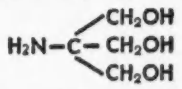
Plans for additional sulfuric acid facilities at Cornwells Heights, Pa., have been announced by Cornwell Chemical Corporation. Last year Cornwell put into production a modern, enlarged unit, and when the new plant is completed the corporation will have the largest production of all grades of sulfuric acid and oleums for sale in the Delaware Valley, it was reported.

meet "TRIS AMINO"

See what this highly reactive nitroparaffin derivative might do for you



"Tris Amino" is short for Tris(hydroxymethyl)aminomethane. This chemical is unique. It is the only tri-hydroxy molecule commercially available having a primary amine group.



Tris Amino is a raw material undergoing a very wide variety of chemical reactions. The reactivity of Tris Amino makes it of unusual interest in chemical synthesis, since it contains a primary amine group *and* three primary reactive hydroxyl groups. Manufacturers of resins, synthetic drying oils, and surface active agents cannot afford to overlook the potential usefulness of Tris Amino as a raw material.

Tris Amino reacts with higher fatty acids to form soaps with unusually strong emulsifying power. Relative high boiling point and low combining weight recommend the use of Tris Amino in preparation of cosmetic creams, textile specialties, cleaning compounds and many other emulsions.

CSC's great new Nitroparaffins plant at Sterlington, La., on stream August, 1955, will assure certain, constant supplies of Tris Amino.

PROPERTIES

Molecular Weight	121.14
Boiling Point, °C	219 to 220 10mm
Melting Point, °C	171-172
pH of 0.1M Aqueous Solution at 20°C	10.4
Solubility in Water at 20°C, g/100 ml	80

Other Aminohydroxy Compounds

AB (2-Amino-1-butanol)
AMP (2-Amino-2-methyl-1-propanol)
AMPD (2-Amino-2-methyl-1, 3-propanediol)
AEPD (2-Amino-2-ethyl-1, 3-propanediol)

Now available in semi-commercial quantities.

COMMERCIAL SOLVENTS CORPORATION
260 MADISON AVENUE NEW YORK 16, N. Y.
INDUSTRIAL CHEMICALS

See What Tris Amino Can Do For You
Fill in Coupon Now

Market Development Dept.
Commercial Solvents Corp.
260 Madison Avenue
New York 16, N. Y.

So I can further evaluate CSC Tris Amino, please send me detailed technical data and a sample.

Name_____
Title_____
Company_____
Street_____
City_____ Zone_____ State_____

Association Meetings

American Association of Textile Chemists and Colorists, Atlantic City, N. J., September 22-25.

American Chemical Society, national meeting, University of Minnesota, Minneapolis, Minn., September 11-16.

American Council of Independent Laboratories, annual meeting, Westward Ho hotel, Phoenix, Ariz., November 8-11.

American Institute of Chemical Engineers, Lake Placid, N. Y., September 26-28; annual meeting, Statler hotel, Detroit, Mich., November 27-30

American Petroleum Institute, annual meeting, St. Francis, Fairmount, Palace and Mark Hopkins hotels, San Francisco, November 14-17

American Pharmaceutical Manufacturers Association, mid-year and eastern section meetings, Waldorf-Astoria hotel, New York, December 12-14.

American Soybean Association, National Soybean Processors Association, joint meeting, Netherlands Plaza hotel, Cincinnati, Ohio, August 29-31

Association of Consulting Chemists and Chemical Engineers, forum and annual meeting, Belmont Plaza hotel, New York, October 25.

Atomic Industry Trade Fair, Sheraton-Park hotel, Washington, D. C., September 26-30.

Chemical Market Research Association, Cavalier hotel, Virginia Beach, Va., September 22-23; joint meeting with CCDA, Carter hotel, Cleveland, Ohio, November 14-15.

Combined Pharmaceutical Contact Committee of ADMA and APMA, Sheraton-Park hotel, Washington, D. C., October 10-11.

Commercial Chemical Development Association, joint meeting with CMRA, Carter hotel, Cleveland, Ohio, November 14-15.

Drug, Chemical and Allied Trades section of the New York Board of Trade, annual meeting, Pocono Inn, Pocono Manor, Pa., September 22-24.

Exposition of Chemical Industries, Commercial Museum and Convention Hall, Philadelphia, December 5-9.

Federation of Paint and Varnish Production Clubs, annual meeting, Statler hotel, New York, October 3-5

Federal Wholesale Druggists Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W Va., September 11-14.

Food, Drug and Cosmetic Law division of the American Bar Association, annual meeting, University of Pennsylvania Law School, Philadelphia, August 23.

International Atomic Exposition, Cleveland Public Auditorium, Cleveland, Ohio, December 12-16.

National Agricultural Chemicals Association, annual meeting, Essex and Sussex hotel, Spring Lake, N. J., September 7-9.

National Association of Retail Druggists, annual convention, Atlantic City, N. J., October 16-20.

National Foreign Trade Council, annual foreign trade convention, Waldorf-Astoria hotel, New York, November 14-16.

National Paint, Varnish and Lacquer Association, annual convention, Shoreham and Sheraton-Park hotels, Washington, D. C., October 31-November 2.

National Petroleum Association, annual meeting, Traymore hotel, Atlantic City, September 14-16.

National Soybean Processors Association, American Soybean Association, joint meeting, Netherlands Plaza hotel, Cincinnati, Ohio, August 29-31.

Nuclear Engineering and Science Congress, Cleveland Public Auditorium, Cleveland, Ohio, December 12-16.

Packaging Machinery Manufacturers Institute, annual meeting, The Homestead, Hot Springs, Va., September 15-18.

Paint Industries' Show, Statler hotel, New York, October 3-5.

Parenteral Drug Association, annual meeting, New Yorker hotel, New York, October 25-27.

Society of Chemical Industry, American section, chemical industry medal dinner, Waldorf-Astoria hotel, New York, October 28.

Society of Cosmetic Chemists, annual seminar, Barbizon-Plaza hotel, New York, September 15-16.

Synthetic Organic Chemical Manufacturers Association monthly luncheon meeting, Waldorf-Astoria hotel, New York, September 14; annual dinner, Commodore hotel, New York, December 1.

World Plastics Fair and Trade Exposition, National Guard Armory, Los Angeles, October 5-9.

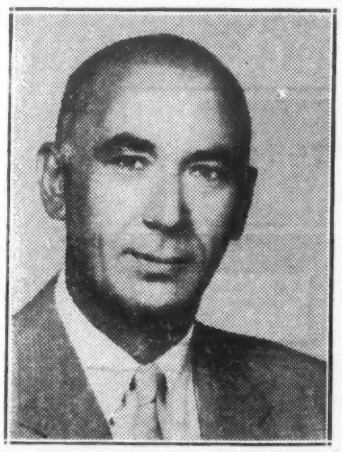
Asphaltic Product Duties Are Slated for Increases

The Treasury Department last week announced that it intends to reclassify asphalt sheets and ebon putty (asphalt plastic) for customs purposes, effective in ninety days. The action will result in higher duties being imposed on these products than heretofore.

It has been the policy of the department in the past to classify asphalt sheets composed of a mixture of asphalt and earthy or mineral substances as free of duty under paragraph 1710 of the tariff act of 1930. It is now proposed to classify the material under paragraph 14, as modified, at the rate of 15 percent ad valorem.

Ebon putty, consisting of petrol pitch in combination with, and in chief value of, animal and mineral waxes, is to be classified as a manufacture in chief value of wax under paragraph 1536, as modified, with the duty at the rate of 10 percent ad valorem. It also had been on the free list.

Stepan Chemical Vice-Presidents



Dr. David B. Hatcher (right) has been named vice-president and general manager of Stepan Chemical Company, Chicago, while William von Dielingen has been made vice-president in charge of production. Both men have been appointed directors of the company. Dr. Hatcher, who has been general manager of Stepan since 1951, formerly was with the resin division of Libbey-Owens-Ford Glass Company, Toledo, Ohio. Mr. von Dielingen was superintendent of production for Stepan and has been associated with the concern for the past twenty years.

Society of Chemical Industry Elects American Unit Leader

Raymond Stevens, senior vice-president of Arthur D. Little, Inc., Cambridge, Mass., is the newly-elected honorary chairman of the American section of the Society of Chemical Industry for the year 1955-1956. Announcement of the election has been made by the section's retiring chairman, Dr. Clifford F. Rassweiler, vice-chairman of the board of Johns-Manville Corporation, New York.

Other officers of the section elected are:—Honorary vice-chairman, Monroe E. Spaght, vice-president of Shell Oil Company, New York; honorary treasurer, Cecil L. Brown, assistant manager of research and development for Standard Oil Development Company, Linden, N. J.; honorary controller, Robert Heggie, director of research for American Chicle Company, Long Island City, N. Y.; and honorary secretary, William E. Hanford, vice-president of M. W. Kellogg Company, New York.

Members of the executive committee, elected for three years are:—Anthony L. Carrad, Imperial Chemical Industries (New York) Ltd.; Sydney T. Ellis, Commercial Solvents Corporation; Fred J. Emmerich, Allied Chemical & Dye Corporation, and Thomas H. Vaughn, Colgate-Palmolive Company. Lauchlin M. Currie, of Linde Air Products division of Union Carbide & Carbon Corporation, has been elected a member of the executive committee for two years, and Richard B. Schneider of Empire Trust Company, for one year.

Newcomb Is Out of NWDA

At a special meeting last week, the board of control of the National Wholesale Druggists' Association accepted by unanimous vote the resignation of E. Allen Newcomb as executive secretary. Dr. Albert B. Fisher, jr., will be in charge of the association's affairs pending appointment of a permanent secretary.

Concannon of BDSA to Head Data Center at Pakistan Fair

Charles C. Concannon, consultant on international affairs in the chemical and rubber division of the Business and Defense Services Administration, will head a Trade Information Center at the third Pakistan International Industries Fair to be held at Karachi, September 2 to October 2.

While attending the fair, Mr. Concannon plans to observe Pakistan's small but developing chemical industry for such information as might be useful in his work on world chemical trades upon his return to this country later in the year.

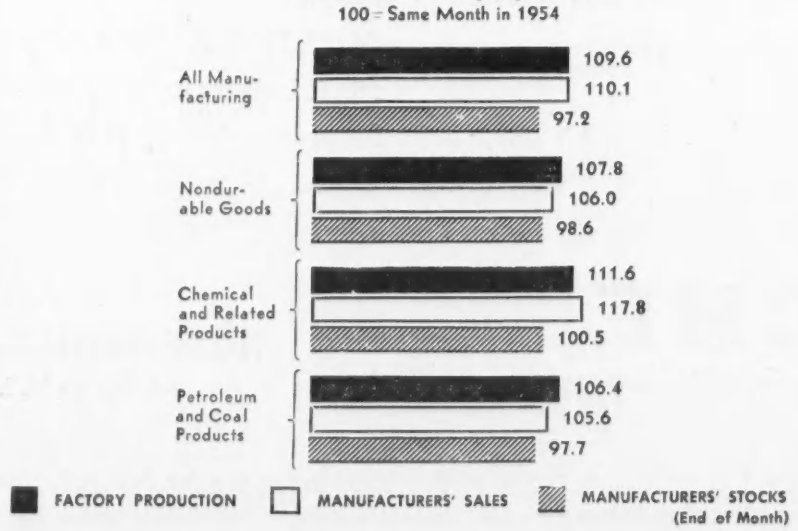
Although sharing in the general gains in industrial production and growth of new enterprises in 1954, the Pakistan chemical industry has been impeded by the shortage of foreign exchange with which to import raw materials and equipment. Even though the government gives priority to the import of these goods, as an incentive to private enterprises, the currency situation and other factors have precluded their inflow in sufficient quantities.

Pakistan has deposits of some chemical raw materials, including barytes, chromite, fluorspar, phosphates, salt, potash, and magnesium salts. It also has numerous medicinal herbs and plants, of which Artemisia and Ephedra are the most im-

—Continued on page 42

Chemical Industry Group's Presidency to Robert First

Robert S. First, of National Lead Company, has been elected president of the Chemical Industry Association, succeeding H. W. McNulty, of Solvay Process Division of Allied Chemical & Dye Corporation. Other officers elected were:—Vice-president, David A. Teaze, Carbide & Carbon Chemicals Company, a division of Union Carbide & Carbon Corporation; secretary, Howard J. Sanders, *Chemical and Engineering News*, and treasurer, Shepherd Stigman, Foster D. Snell, Inc.



ACS National Meeting Slated for Minneapolis

The American Chemical Society will hold its 128th national meeting September 11 through 16 on the University of Minnesota campus in Minneapolis, Minn. General headquarters for the six-day parley will be the Coffman Memorial Union.

Dr. Charles Allen Thomas, president of Monsanto Chemical Company, St. Louis, Mo., and a leader in the wartime atomic energy program, will receive the 1955 Priestley medal at a general assembly in the Coffman Union Monday night, September 12. The Priestley medal address by Dr. Thomas will be followed by the ACS presidential address by Prof. Joel H. Hildebrand of the University of California.

General chairman of the national meeting is Dr. Lloyd H. Ryerson, internationally known colloid chemist and professor of chemistry at the University of Minnesota.

Immunization to Be Discussed

Exploring chemical ways of producing immunity to disease, developing industrial uses for dairy by-products and cereals, and aiding the teaching of chemistry by means of closed-circuit tv will be the topics of some of the sixty scientific symposia scheduled. The use of chemical additives in gasoline, the role of steroid drugs in cancer research, and the profitable refining of low-grade mineral products also will be described in papers presented on the technical program.

Dr. Betty Sullivan, vice-president of the Russell-Miller Milling Company, Minneapolis, and 1954 winner of the society's Garvan medal in chemistry, and Dr. William Findlay Geddes, chief of the University of Minnesota's division of agricultural biochemistry and international authority on cereal chemistry and technology, will be co-chairman of a symposium on "Cereals" to be sponsored by the society's division of agricultural and food chemistry.

"Rocket Fuels" will be the subject of a symposium of the division of industrial and engineering chemistry. Dr. A. W. Sloan, authority on rockets, jet propulsion

—Continued on page 38

Europe Is Seen Doubling US Chemical Growth Rate

European chemical growth is outpacing that of the US chemical industry by a rate of better than two to one, according to Dr. Robert S. Aries, New York consulting engineer, just back from a three-month tour of Western Europe.

The US chemical industry, he pointed out, has been growing at the rate of 7.5 percent since 1951. Against this, European producers have expanded by more than 15 percent a year. For instance, he said, the French company Consortium de Produits Chimiques et de Synthese is expected to do around 5,000,000,000 worth of business this year. This is double its sales volume in 1954 and four times that of 1953.

In England, Dr. Aries continued, Marchon Products Company has grown in ten years from a company with £20,000 capital to a firm with about £10,000,000 capital. In Germany new chemical names such as Rhein Chemie and Hibernia are making tremendous strides, he said, adding that the giants are also becoming bigger, with Montecatini dominating the Italian chemical picture; ICI in England; Bayer, BASF and Hoechst in Germany, and Rhone Poulenc and Pechiney in France.

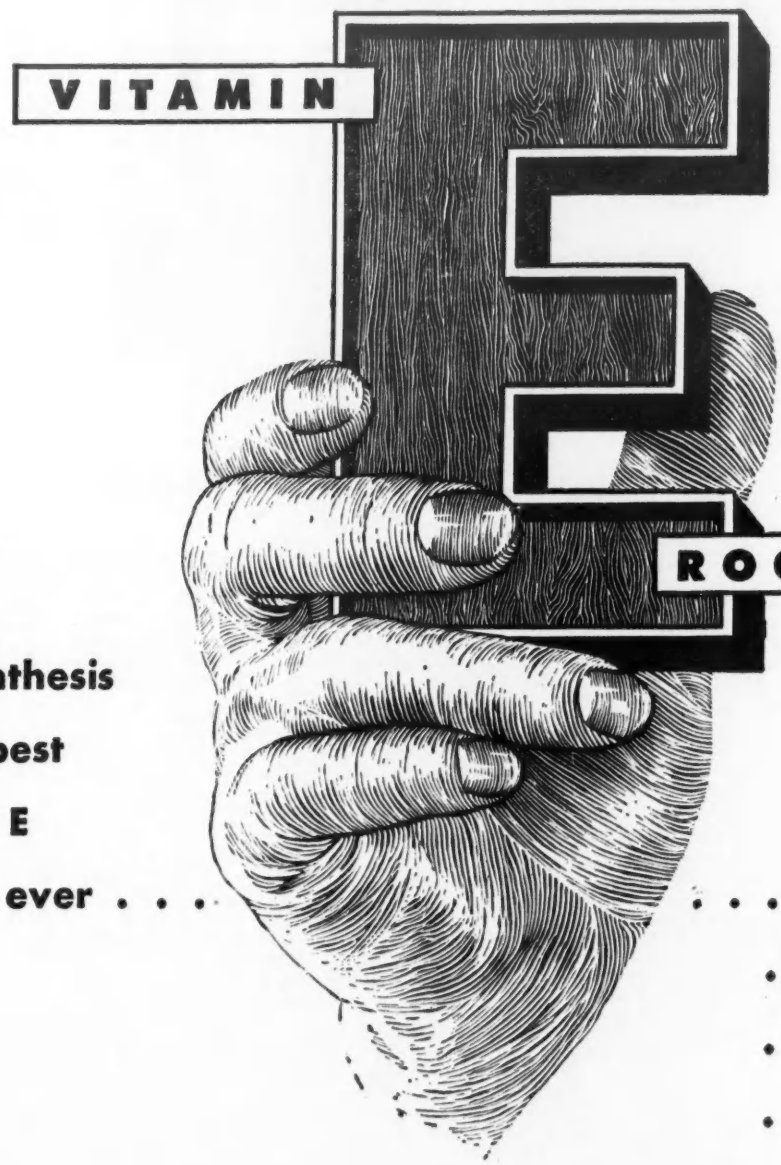
Fatty Acid Output Record Reported for Month of May

Fatty acid production in May totaled 37,600,000 pounds, the highest level recorded in the last several years, according to figures released by the Association of American Soap and Glycerine Producers. The May production figure was 18.6 percent above the figure for May of last year.

Total disposition in May, was 41,200,000 pounds some 4,200,000 pounds above April and approximately 9,900,000 pounds above the May, 1954, level. Stocks, including work in progress, decreased to a level of 40,400,000 pounds in May of this year, as compared to 41,072,000 pounds in the previous month.

Petroleum Council Defers Summer Meeting Until Fall

Walter S. Hallanan, chairman of the National Petroleum Council, has announced that the regular summer meeting of the council, which would ordinarily be held in the latter part of July, had been deferred until the fall meeting which normally is held in October, with the understanding that if any urgent matter should develop in the meantime a meeting could be called on short notice.



New Roche synthesis produces best vitamin E ever . . .

. . . Premium quality

- **Higher purity**
- **Lighter color**
- **Lower cost**

In 1941 when the Health Organisation of the League of Nations established the International Reference Standard for vitamin E, the form chosen was synthetic racemic alpha-tocopherol (yl) acetate.* The material was supplied by Hoffmann-La Roche.

Now, as the result of a new synthesis, an even better Roche vitamin E acetate is available for your pharmaceutical preparations.

PALER COLOR. The new Roche synthesis produces an acetate of very pale straw color, *four times lighter than heretofore.*

HIGH PURITY. As always, Roche vitamin E meets an exceptionally high standard of purity.

COSTS NO MORE. The new low price of Roche vitamin E is the result of improved synthesis and more economical manufacture. There is no sacrifice in quality.

INTERNATIONAL STANDARD—INDUSTRY CRITERION. Roche vitamin E acetate is both. Adopt it for your formulae.

SAMPLES of the new Roche vitamin E are available. Ask your Roche representative or write the Vitamin Division.

ORDER NOW. Commercial production of the new Roche vitamin E insures ample supplies. You may place your orders now for prompt delivery of any quantity.

*Nature; Vol. 148; October 18, 1941; pages 472-3. Reprints available.

Call **ROCHE** *for Vitamins*

VITAMIN DIVISION
HOFFMANN-LA ROCHE INC.
NUTLEY 10, N. J. • NUtley 2-5000

Pacific Coast distributor: L. H. BUTCHER COMPANY, San Francisco, Los Angeles, Seattle, Portland, Salt Lake City
In Canada: Hoffmann-La Roche Ltd., 286 St. Paul Street, West; Montreal, Quebec

Current Market Quotations

Chemicals and Related Materials

All matters under this heading fully protected by copyright.

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, July 15 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views. An index to the weekly market reports is to be found on page 4.

A

Acacia (see Gum arabic).
Acenaphthene, below 92.5 C., m.p., dms. works lb. .40 - —
above 92.5 C., m.p. bbls., dms., works lb. .41 - .50
Acetaldehyde, 99%, dms., c.l., dlvd. lb. .12 - —
l.c.l., dlvd lb. .13½ - —
tanks, dlvd lb. .10 - —
Acetaldol (see Aldol)
Acetanilide, tech. bbls. c.l., dlvd lb. .29 - —
ton lots lb. .30 - —
smaller lots lb. .30½ - —
USP bbls., 2,000-lb lots lb. .80 —
smaller lots lb. .81 .86
Acetic anhydride, dms., c.l. dlvd E. lb. .15½ - —
l.c.l., dlvd E lb. .17 - —
tanks, dlvd E lb. .14 - —
Acetoacetanilide, fib. dms., c.l., dlvd lb. .80 - —
l.c.l., dlvd lb. .81 - —
Acetoacet-o-chloroanilide, fib. dms., c.l., dlvd lb 1.35 - —
l.c.l., dlvd lb. 1.36 - —
Acetoacet-o-toluidide, fib. dms., c.l., dlvd lb. .82 - —
l.c.l., dlvd lb. .83 - —
Acetone, CP, dms., c.l., dlvd lb. .09 - —
l.c.l., dlvd. lb. .10 - —
tanks, dlvd. lb. .07 - —
Methyl (see MD
Acetonitrile, dms., c.l., works lb. .45 - —
l.c.l., works lb. .47 - —
Acetophenetidin, USP, bbls., works, frt. equald lb. 1.17 1.19
Acetophenone cns., dms lb 1.21 1.85
tech., dms., l.c.l., works lb. .75 —
N Acetyl-p-aminophenol, dms., frt. adjusted lb 1.75 1.85
Acetyltributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .36 - —
l.c.l., frt. alld. E. of Denver lb. .35 - —
tanks, frt. alld. E. of Denver, lb. .33 - —
Acetyltriethyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .39 - —
l.c.l., frt. alld E. of Denver, lb. .40 - —
tanks, frt. alld. E. of Denver, lb. .37 - —
Acetyltri-2-ethylhexyl citrate, non-ret. dms., frt. alld lb. .60 - —
Acid, abietic, coml., dms., c.l., works lb. .12 —
l.c.l., ex whse lb. .1490 -
cryst., dms. c.l. works lb. .06½ -
l.c.l. works lb. .07 .07½
Acetic, coml., or redist., 28%, bbls 100 lbs. 4.80 - —
56%, bbls 100 lbs 8.25 - —
70%, bbls 100 lbs. 9.95 - —
80% bbls 100 lbs. 10.45 - —
glacial, syn., CP, dms., dlvd. 100 lbs. 15.00 -16.00
tech., dms., c.l., dlvd 100 lbs. 12.00 - —
l.c.l., same basis 100 lbs. 13.00 - —
tanks, dlvd 100 lbs. 10.00 - —
USP cbys., inclusive, dlvd., 100 lbs. 24.00 -25.00
Acetic anhydride (see Acetic anhydride above).
Acetylsalicylic, USP, special, makers, primary distrib., bbls., 1,000-lb. lots, point of shipt lb. .63 - —
standard, fine, cryst., gran., (30-40 mesh) powd., (80 mesh) bbls., 1,000-lb. lots. lb. .58 - .60

Freight equald, shipt. identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Adipic, fib. dms., c.l., dlvd lb. .35 - —
l.c.l., dlvd lb. .37½ -
Aminoacetic, NF, bbls., frt. adjusted lb. 1.50 1.75
p-Aminobenzoic, tech., dms., works lb. 1.74 1.77
USP dms., 1,000-lb. lots or more, works lb. 2.50 - —
smaller lots, works lb. 2.55 - 2.60
p-Aminosalicylic, dms., 1,000-lb. lots or more, frt. adjusted lb. 4.00 - —
smaller lots, same basis lb 4.05 - 4.50
Anthranilic, bbls., frt equald lb 1.21 - —
Arsenous, tech., (see Arsenic, white).
USP (see Arsenic trioxide)
Ascorbic USP, dms., 25-100 kilo lots kilo. 16.00 - —
10-kilo lots kilo. 16.35 - —
5-kilo lots kilo. 16.75 - —
bots 1-kilo lots kilo. 17.00 - —
500-gram lots kilo. 17.50 - —
Battery, cbys., c.l., works, E. 100 lbs. 2.35 - —
l.c.l., works, E 100 lbs. 2.65 - 3.45
Benzoic, tech., bbls., dms., 100-lb. lots or more lb. .44 - —
USP, bbls., dms., 100-lb. lots or more lb. .54 - —
Betahydroxynaphthoic (see Acid, b-Oxynaphthoic).
Betaoxynaphthoic (see Acid b-Oxynaphthoic).
Boric, tech., 99.9%, cryst., bgs., c.l., works ton. 124.25 - —
ton lots, ex whse, N. Y. or Chi ton. 172.00 - —
smaller lots, same basis. ton. 177.00 - —
bbls., c.l., works ton. 148.75 - —
ton lots, ex whse. N. Y. or Chi ton. 196.50 - —
smaller lots, same basis. ton. 201.50 - —
gran., bgs., c.l., works ton. 99.25 - —
ton lots, ex whse. N. Y. or Chi ton. 147.00 - —
smaller lots, same basis. ton. 152.00 - —
bbls., c.l., works ton. 123.75 - —
ton lots, ex whse. N. Y. or Chi. ton. 171.50 - —

Acid, boric, tech., 99.9%, gran., bbls., smaller lots, same basis. ton. 176.50 - —
bulk, c.l., works ton. 94.25 - —
powd., bgs., c.l., works ton. 104.25 - —
ton lots, ex whse. N. Y. or Chi ton. 152.00 - —
smaller lots, same basis. ton. 157.00 - —
bbls., c.l., works ton. 128.75 - —
ton lots, ex whse., N. Y or Chi ton. 176.50 - —
smaller lots, same basis. ton 181.50 - —

Boric acid in kegs $45.50 per ton higher than in paper bgs USP boric Acid $25 per ton higher.

Broenners bbls lb. 1.76 —
Butyric, 99% dms., c.l., works, lb. .34 - —
l.c.l. works lb. .34½ - —
tanks works lb. .32½ - —
Capric, dms lb. .24 - .26
Caprylic, dms. lb. .24 - .26
Cassella, dms. frt. alld., 100% basis lb. 1.44 1.75
Castor oil, split, dms lb. .35½ .36
Chicago bbls frt alld lb 3.21 —
Chloroacetic, mono purif., flake, 99%, dms lb. .23½ - .25½
tech. flake 96-97% frt. equald. dms lb. .20 .21
o-Chlorobenzoic, fib dms., works lb 1.13 —
p-Chlorobenzoic, fib dms. works lb. 1.59 1.62
Chlorosulfonic, dms., c.l., frt. equald lb. .046 - —
l.c.l. frt equald lb. .051½ - —
tanks, frt equald lb. .041 - —

Acid, chlorosulfonic, in stainless steel dms. ½c per lb higher.

Cholic, 100-lb lots, fib dms. lb 6.00 6.25
Chromic 99¾% dms. c.l. works frt. equald lb. .27½ - —
l.c.l., dlvd., N. Y. metropolitan area lb. .28½ - .29½

NF (see Chromium trioxide).

Cinnamic, refd. bots lb 2.50 3.50
Citric, USP, anhyd., gran., fine gran. dms. c.l lb. .28¾ —
10,000-lb lots, 1 shipt. lb. .29¼ —
smaller lots lb. .29¾ - .31¼

Acid, citric, USP, hydrous, gran., fine gran., dms., c.l lb. .27 - —
10,000-lb lots, 1 shipt. lb 27½ - —
smaller lots lb. .28 - .29½

Powdered citric acid ½c. higher

Cleve's, mixed, bbls lb. .79 —
Coconut oil, dist., dms lb. .24¾ - .26¾
tanks lb. .22¾ - —
dbl dist., dms lb. .25¾ - .27¾
tanks lb. .22¾ - .23¾
Corn oil, dist., dms lb. .15¾ - .17¾
tanks lb. .13¾ - —
Cottonseed oil, dist., dms lb. .1525 - .1725
tanks lb. .1325 - —
2,3-Cresotic, dms. ton lots, works. lb. .66 - —
less than ton lots lb. .68 - —
Cresylic coaltar dom. 50% 207 C or above resin and tricresyl phosphate grade, tanks, frt. equald gal. 1.00 - —
50% 210° C. or above, total range over 9° C., non-resin grade, dms., c.l., same basis gal. .91 - —
l.c.l., same basis gal. .94 - —
tanks, same basis gal. .80 - —
50% 204° to 207° C., tricresyl phosphate and resin grade, tanks, same basis gal. 1.10 - —
imp., 75% at 215°C., or over, dms ex whse gal. .75 - .90
petroleum, dom., 193° to 214°C., non-ret 65 dms. to c.l., works, San Francisco and Los Angeles gal. .75 - —
l.c.l., same basis gal. .77 - 79
tanks, works, frt. alld. E. gal. .71 - —
200° C to 222° C., tanks, Wilmington, Cal gal. .62 - .69
211° C to 237° C., non-ret. dms. c.l., San Francisco and Los Angeles gal. .67 - —
l.c.l., same basis gal. .69 - .71
tanks, same basis gal. .54 - —
220° C. to 242° C., tanks, Wilmington, Cal gal. .54 - .59
245° C. to 298° C., tanks, Wilmington, Cal gal. .50 - —
Crotonic fib dms., 200 lbs. or more, works lb. .50 - —
Cyanoacetic, tech., bbls lb .90 1.25
Dehydrocholic, injection, fib dms. 100-lb. lots lb. 12.25 - —
oral, fib. dms., 100-lb. lots lb. 9.25 - —

Acid, desoxycholic, fib. dms., 100-lb. lots lb. 14.00 - —
Dichlorophenoxyacetic (see under D 2,4 D)
Diethylbarbituric (see Barbital)
Diglycolic, bgs. works lb. .14 —
2-ethyl hexoic, dms., c.l., works lb. .36½ -
l.c.l., works lb. .37½ -
tanks, works lb. .34½ -
F, crude, paste, bbls., works lb. 2.10 - —
Folic, bots, fib. cns kilo-lots or more gram. 1.40 - —
Formic, 85%, cbys., c.l., works lb. .1570 -
l.c.l., works lb. .1620 - .1720
90%, cbys. c.l., works lb. .1625 -
l.c.l. works lb. .1675 - .1775
Fumaric, tech., bgs., dms lb. .27 .28
Gallic, NF VII bbls. 1,000-lb. lots lb. 1.80
smaller lots lb. 1.82 2.00
tech., bbls., 1,000-lb. lots lb. 1.58 —
smaller lots lb 1.69 1.78
Gamma, dry, grd., bbls., frt. alld. lb. 1.50 - —
paste, bbls., frt alld lb 1.45 - —
Gentisic, 100-lb fib dms lb 8.50 —
Gluconic, tech., 50% bots lb. .25 .35
cbys. lb. .19 —
dms. lb. 15½ —
l-Glutamic, 99½% fib. dms., 100 lb lots works lb 2.45 2.53
25 lb lots, works lb 2.54 2.60
Glycerophosphoric, 35%, dms., works lb. 2.23 2.35
Glycolic (see Acid hydroxyacetic)
H, dry, bbls., c.l., works, 100% basis lb. 1.00 - —
l.c.l., same basis lb. 1.02 - —
Hydriodic, 1.50 s.g., cbys lb 2.94 —
1.70 s.g., cbys lb 3.23 —
Hydrobromic, medicinal, 48%, cbys., dlvd E lb .37 .43
Hydrochloric, anhyd. (see Hydrogen chloride).
18° cbys., c.l., works 100 lbs 2.50 —
l.c.l., dlvd Metropolitan area 100 lbs 2.90 3.05
tanks works, frt equald ton 28.00 —
20° cbys., c.l., works 100 lbs. 2.75 —
l.c.l., dlvd Metropolitan area 100 lbs. 3.15 —
tanks works, frt equald ton 30.00 —
22°, cbys., c.l., works 100 lbs. 3.25 —
l.c.l. dlvd Metropolitan area 100 lbs. 3.65 —
tanks, works, frt. equald ton 35.00 —
CP, USP, consumers, cbys., extra c.l. works lb 11¾ -
l.c.l., same basis lb. .13¼ - .13¾
5-pint bots., extra, c.l., c.l., same basis lb. .16¾ -
l.c.l., same basis lb. .18¼ - .19¼

Acid, hydrochloric, CP USP prices to dealers 1 2c per lb less

Hydrocyanic, cyls. frt alld lb. 75 95
dilute, NF, 2%, 5-lb. bots lb. .40 - —
Hydrofluoric, anhyd. (see Hydrogen fluoride).
tanks works lb. .21 - —
70%, steel dms., works lb. .18½ .22½
Hydrofluosilicic, dms., works, 30% basis lb. .06 - —
Hydroxyacetic, tech., 70%, non-ret. bbls., Phila., 100% basis lb. .136 —
tanks Belle, W Va., 100% basis lb. .095 —
Hypophosphorus, purif., 50%, cbys lb. 1.30 1.32
USP, cbys lb 88 —
Isonicotinic 100 lb fib dms works lb. 5.00 - —
Itaconic, fib dms., c.l., works lb. .59 - —
l.c.l., works lb. .60 - —
Hydrazide (see Isoniazid).
J, bbls., works, 100% basis lb 2.50 2.85
Koch, bbls., frt. alld lb. 1.00 - —
L, bbls., works lb. 1.25 —
Lactic, edible, 50%, bbls., 20 or more lb. .1754 - .215
smaller lots lb. .1854 - .225
80%, bbls., 5 or more lb. .3054 - .37
smaller lots lb. .3104 - .375
plastic grade, 50%, bbls., 20 or more, works lb. .23 - —
1 to 19 lb. .235 - —
80%, bbls., 5 or more lb. .385 - —
tech., 22%, bbls., c.l., works 100 lbs. 6.30 - —
l.c.l., works 100 lbs. 6.70 - —
cbys., l.c.l., works 100 lbs. 12.20 - —
44%, bbls., c.l., works 100 lbs. 11.45 -11.95
l.c.l., works 100 lbs. 11.85 -12.35
USP, 85%, cbys. lb. .85 - .88
Laurent's, bbls lb. .60 - —
Lauric, dms lb. .35½ - .37½
Linseed oil, dist., dms lb. .1895 - —
w.w., dms lb. .2195 - —
Maleic, cryst., powd., dms lb. .37 .38
Malic, tech., dms lb. .70 —
Mandelic, NF, dms., 1,000-lb. lots. lb. 2.35 - —
smaller lots lb. 2.40 - 2.50
Metanilic, dms., works lb. .57 - .75
Methacrylic, glacial, 98%, dms., truckloads, works lb. .54½ - —
smaller lots, works lb. .55 - —
Molybdic, 85-92%, dms., works lb. 1.32 - —
Monochloroacetic, purif. (see Acid, Chloroacetic mono-).
Muriatic (see Acid, hydrochloric).
Myristic, dms lb. .28 - 29¾
1-Naphthol-4-sulfonic (see Acid, Nevile and Winthers).
1-Naphthol-5-sulfonic (see Acid, L).
1-Naphthol-5-sulfonic, 8-amino (see Acid, S).
1-Naphthol-3,6-disulfonic, 8-amino (see Acid, H).
2-Naphthol-6,8-disulfonic (see Acid, Gamma).
5-Naphthol-7-sulfonic, 2-amino (see Acid, J).
Naphtholsulfonic, mixed (see Acid, Cleve's).
1-Naphthylamine-5-sulfonic (see Acid, Laurent's).
2-Naphthylamine-4,8-disulfonic (see Acid, Cassella).
2-Naphthylamine-6-sulfonic (see Acid, Broenner's).
2-Naphthylamine-7-sulfonic (see Acid, F).
2-Naphthylamine-1-sulfonic (see Acid, Tobias).

Abbreviations

Used in OPD Market Quotations

alld.	allowed	distr.	distributor	NNR	New and Nonofficial Remedies
amorph.	amorphous	djns.	demijohns	No.	number
AMP	American melting point	dlvd.	delivered	nom.	nominal
anhyd.	anhydrous	dms.	drums	o-	ortho
a.p.a.	available phosphoric acid	dom.	domestic	ord.	ordinary
approx.	approximately	E	east	oz.	ounce
artif.	artificial	e.p.	end point	p-	para
ASTM	American Society for Testing Materials	equald.	equalized	Pac.	Pacific
Atl.	Atlantic	exp.	expressed	pf.	proof
Be.	Baume	F.	fahrenheit	phos.	phosphate
bbls.	barrels	ferment.	fermentation	photo.	photographic
bgs.	bags	f.f.a.	free fatty acid	pkgs.	packages
bls	bales	f.f.c.	free from chlorine	powd.	powdered
bots.	bottles	fib.	fiber	precip.	precipitated
b.p.	boiling point	f.o.b.	free on board	prod.	producer
b.p.l.	bone phosphate of lime	f.p.a.	free of prussic acid	pt.	point
b.r.	boiling range	frt.	freight	pulv.	pulverized
bxs.	boxes	gal.	gallon	purif.	purified
C.	centigrade	gran.	granular	redist.	redistilled
cbys.	carboys	grd.	ground	refd.	refined
CD	completely denatured	I.&a.	iron and aluminum	refy.	refinery
c.i.f.	cost, insurance, freight	i.b.p.	initial boiling point	reg.	regular
cks.	casks	imp.	imported	resub.	resublimed
c.l.	carlots	incl.	included	ret.	returnable
cns.	cans	indust.	industrial	SD	specially denatured
coml.	commercial	kgs.	kegs	s.d.	single distilled
conc.	concentrated	l-	laevo	S E.	southeast
CP	chemically pure	lacq.	lacquer	sec.	secondary
cps.	centipoises	lb.	pound	secs.	seconds
cryst.	crystal	l.c.l.	less than carlots	s.g.	specific gravity
cs.	cases	l.t.l.	less truckload	ship't	shipment
ctns.	cartons	liq.	liquid	soln.	solution
cyls.	cylinders	mfrs.	manufacturers	s.u.	standard unit
d-	dextro	m-	meta	syn.	synthetic
dbl.	double	m.a.p.	mixed aniline point	tanks.	railroad tankcars
denat.	denatured	min.	minimum	tech.	technical
dest-dist.	destructive-distilled	m.p.	melting point	tert-	tertiary
dl-	dextro-laevo	N-	nitrogen	t.l.	truck loads
dist.	distilled	n-	normal	t.w.	tank wagons
		nat.	natural	USP	U. S. Pharmacopoeia
		neut.	neutral	vis.	viscosity
		NF	National Formulary	VM&P	varnish makers & painters
				w. w.	west
				W.	warehouse
				whse.	water-white

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

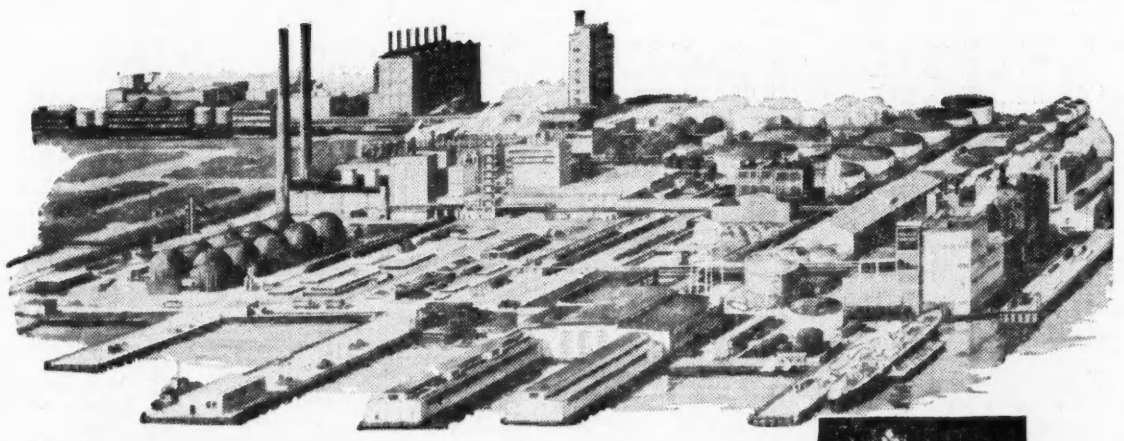
Acid, Nevile & Winther's—Alcohol, Diacetone

Acid, Nevile and Winther's, dms., frt. alld lb 1.20 - —
Nicotinic, USP, dms., frt. adjusted kilo 8.00 - 8.30
Amide, USP (see Nicotinamide)
Nitric 36° Be chys. c.l., works, E. 100 lbs 5.75 - —
l.c.l., works, E 100 lbs 6.05 - 6.85
38° Be chys. c.l., works, E 100 lbs. 6.25 - —
l.c.l., works, E 100 lbs 6.55 - 7.35
40° Be, chys. c.l., works, E 100 lbs. 6.75 - —
l.c.l., works, E 100 lbs 7.05 - 7.85
42° Be chys. c.l., works, E 100 lbs. 7.25 - —
l.c.l., works, E 100 lbs 7.55 - 8.35
58.5 to 68% HNO_3, tanks, works, 100% basis 100 lbs. 3.90 - —
94½ to 95½% HNO_3, tanks, works, 100% basis 100 lbs. 4.90 - —
CP, NF, consumers, chys., extra c.l., works lb. .13½- —
l.c.l., same basis lb. .11¼- .11¾
5-pt. bots., extra, cs., c.l., c.l., same basis lb. .17½- —
l.c.l., same basis lb. .14¾- .20¾
p-Nitrobenzoic, dms., c.l., works lb. .72 - —
l.c.l. works lb. .73 - —
Oleic, s.d., dms lb. .18 - .20
tanks lb. .16 - —
dbl. dist. (white), dms lb. .20½- .22½
tanks lb. .1850- —
Oleum (see Acid, sulfuric, fuming).
Orthochlorobenzoic (see Acid, o-Chlorobenzoic).
Orthocresotinic (see Acid, 2,3 Cresotic).
Oxalic, bbls., c.l., works lb. .16½- —
10,000-lb. lots, works lb. .16¾- —
smaller lots, works lb. .17¾- —

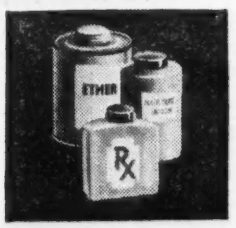
Acid, b-oxynaphthoic, bbls., works. lb. 1.14 - —
Palm oil, dbl., dist., dms lb. .14¼- .16¼
Para-aminobenzoic (see Acid, p-Aminobenzoic)
Para-aminosalicylic (see Acid, p-Aminosalicylic).
Parachlorobenzoic (see Acid, p-Chlorobenzoic)
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic (see Acid p-Nitrobenzoic)
Paratoluidinmetasulfonic (see Acid, p-Toluidine m-sulfonic)
Phenylacetic, pure, cryst. cns., lb. .75 - 1.70
Phenylcinchoninic (see Cinchophen).
Phenylglycolic (see Acid, mandelic).
Phosphoric, food grade, 75%, chys., c.l., frt. alld E 100 lbs. 6.50 - —
l.c.l., works 100 lbs. 7.25 - —
tanks, works 100 lbs. 5.10 - —
NF, 85%, chys., c.l., works lb. .08 - —
l.c.l., works lb. .08½- —
Picric, NF, bbls. lb. .60 - —
tech., bbls. lb. .34 - .35
Propionic, syn., pure, dms., c.l., works lb. .21 - —
l.c.l., works lb. .22 - —
tanks, works lb. .19 - —
Pyrogallic, NF, (see Pyrogallol).
tech., bbls lb. 2.76 - 2.99
Ricinoleic (see Acid, castor oil, split).
S., bbls., works lb. 3.25 - —
Salicylic, crude, fib. dms., c.l. lb. .35 - —
l.c.l., same basis lb. .36 - —
sublimed, tech., fib. dms., c.l. lb. .37 - —
l.c.l. lb. .41 - —
USP, cryst., fib. dms lb. .48 - —
powd., fib. dms lb. .55 - —
Sebacic, purif., dms., c.l., works, lb. .64 - —
l.c.l., works lb. .66 - .70

Acid, soybean oil, dbl. dist., dms. lb. .17¾- .19¾
tanks lb. .15¾- —
s.d., dms lb. .16¼- .18¼
tanks lb. .14¼- —
Stearic, dbl. pressed, bgs lb. .14¾- .16¾
single pressed, bgs lb. .14¼- .16¼
triple pressed, bgs lb. .17 - .19
Succinic purif., cryst., bbls., works lb. .62 - .75
Sulfanilic, tech., dms., c.l., frt. alld lb. .19 - —
l.c.l., frt. alld lb. .21 - —
Sulfuric, 60° Be, chys., c.l., works, 100 lbs. 2.00 - —
l.c.l., works 100 lbs. 2.45 - —
tanks, works ton 18.60 - —
66° Be, chys., c.l., works, 100 lbs. 2.25 - —
l.c.l., works 100 lbs. 2.55 - 3.35
tanks, works ton 22.35 - —
98%, tanks, works ton 23.50 - —
99-100%, tanks, works ton 23.95 - —
CP, NF, consumers, chys, extra, c.l., works, frt. equald lb. .09¾- —
l.c.l., same basis lb. .11¼- .11¾
5-pt. bots., extra cs., c.l., works, frt. alld lb. .13¼- —
l.c.l., same basis lb. .14¾- .20¾
fuming (oleum), 20%, tanks, works ton 25.00 - —
40%, tanks, works ton 29.00 - —
65%, tanks, works ton 39.50 - —
Tallow, dist., dms lb. .14¾- .16¾
hydrogenated, bgs lb. .13¾- .15¾
Tannic, NF, fluffy, bbls., 1,000-lb. lots lb. 1.80 - —
smaller lots lb. 1.81 - 1.85
powd., bbls., 1,000-lb. lots lb. 1.70 - —
smaller lots lb. 1.71 - 1.76
tech., dms lb. .95 - —

Acid, tartaric, USP, dom., 230 or 250-lb. dms., c.l. lb. .44 - —
10,000-lb. lots, 1 shipt lb. .44½- —
smaller lots lb. .45 - —
100-lb. dms lb. .46 - —
small, dms. lb. .48 - .54
imp., bgs lb. .38 Nom.
Thioglycolic, refd., chys., 100% basis lb. 1.35 - 1.55
Tobias, bbls., frt. alld lb. .77 - —
Toluenesulfonic, dms., c.l., works, lb. .16 - —
l.c.l., works lb. .17½- —
p-Toluene sulfonic, monohydrate, dms., c.l., or t.l. lb. .90 - —
125 lbs. to t.l. lb. 1.00 - —
p-Toluidine-m-sulfonic, bbls., works lb. .92 - 1.04
Trichloroacetic, bots. lb. 2.50 - 2.50
Trichlorophenoxyacetic (see under "T" 2,4,5T)
Tungstic, tech., kgs., works lb 4.25 - —
Undecylenic, dms lb 1.40 - —
Aconite root, bls lb .50 - .55
Aconitine, cryst., potent, bots oz. 78.00 - 85.00
Acrolein, tech., dms., c.l., works lb. .47 - —
l.c.l., works lb. .47½- —
Acrylonitrile, dms., c.l., works lb. .33 - —
l.c.l., works lb. .34 - —
tanks, works lb. .21 - —
ACTH, cryst., bulk, 1,000 units/gram. bots gram 15.00 - —
Adeps lanae (see Lanolin)
Adrenocorticotropic hormone (see ACTH).
Agar, USP, Kobe No. 1, strip, bls. lb. 3.00 - 3.25
powdered, 30 mesh, fib., dms lb. 3.40 - 3.50
dl-Alanine, dms., works lb 8.50 - 11.00
Albumin, blood, dark (see Blood, dried, soluble).
light, dms c.l. lb. 65 - 90
Egg, edible, flake, bbls lb. 1.68 - 1.70
powd., cryst., bbls lb. 1.72 - 1.74
tech., cryst., bbls lb. .70 - .85
Alcohol, allyl, dms., c.l., dlvd lb. .32 - —
l.c.l., dlvd lb. .33 - —
tanks, dlvd lb .30 - —
Amyl, ex fusel oil (see Fusel oil, refd.)
ferment., refd., 128°132°C., dms., l.c.l., dlvd lb. .43 - —
ACS grade, dms., c.l., dlvd lb. .45 - —
ex-pentane, mixed, amyls, dms., c.l., frt. alld lb. .17 - —
l.c.l., frt. alld lb. .18 - —
tanks, frt. alld lb. .15 - —
primary, dms., c.l., frt. alld. lb. .19¼- —
l.c.l., frt. alld lb. .20¼- —
tanks, frt. alld lb. .17¼- —
sec-synthetic, dms., c.l., works, frt. alld lb. .18 - —
l.c.l., works lb. .19 - —
tanks, works lb. .16 - —
tert-synthetic, dms., c.l., frt. alld, E lb. .17 - —
l.c.l., frt. alld, E lb. .18 - —
tanks, frt. alld, E lb. .15 - —
1-pentanol, (syn. normal), dms., c.l., works lb. .42 - —
l.c.l., works lb. .43½- —
tanks, works lb. .40 - —
2-pentanol, dms., c.l., works lb. .65 - —
l.c.l., works lb. .70 - —
tanks, works lb. .60 - —
Benzyl, NF, dms lb. .64 - .79
tech., dms., dlvd lb. .47½- .49
n-Butyl, ferment., dms., l.c., frt. alld lb. .15 - —
l.c.l., frt. alld lb. .16 - —
tanks, frt. alld lb. .13 - —
n-synthetic, dms., c.l., dlvd. lb. .15 - —
l.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .13 - —
sec-synthetic, dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11 - —
tert-synthetic, dms., c.l., frt. alld. lb. .14 - —
l.c.l., frt. alld lb. .15 - —
tanks, works lb. .12 - —
Capryl, 95%, dms., c.l., works lb. .21½- —
l.c.l., works lb. .22½- .23⅛
tanks, works lb. .19½- —
Cetyl, extra no. cns., 500-lb. lots or more lb. .73 - —
smaller lots lb. .80 - 1.15
NF, fib. cns., 140-lb lots or more lb. .58 - .82
smaller lots lb. .59 - .82
Cinnamic, bots lb. 2.15 - 2.75
Decyl, purif, bots. lb. 1.75 - 2.00
mixed isomers, dms., c.l., dlvd. lb. .23 - —
l.c.l., dlvd. lb. .24 - —
tanks, dlvd. lb. .21 - —
normal (see 1-Decanol).
Denat., CD12, CD13, CD14, CD17, dms., c.l., dlvd. E. of Rockies gal. .54½- —
l.c.l., same basis, gal. .59½- .65⅛
tanks, dlvd. same basis, gal. .41½- —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
Proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
SD1, dms., c.l., dlvd. E. or Rockies gal. .55½- —
l.c.l., same basis gal. .60½- .66⅛
tanks, same basis gal. .42½- —
SD2B, dms., c.l., dlvd. E. of Rockies gal. .54 - —
l.c.l., same basis gal. .59 - .65
tanks, same basis gal. .41 - —
SD3A, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
SD23A, dms., c.l., dlvd. E. of Rockies gal. .55½- —
l.c.l., same basis gal. .60½- .66⅛
tanks, same basis gal. .42½- —
SD23H, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
SD29, dms., c.l., dlvd. E. of Rockies gal. .54½- —
l.c.l., same basis gal. .59½- .65⅛
tanks, same basis gal. .41½- —
SD30 dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
SD35A, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
SD40, dms., c.l., dlvd. E. of Rockies gal. .54 - —
l.c.l., same basis gal. .59 - .65
tanks, same basis gal. .41 - —
West coast dlvd. prices are the same as eastern prices, except in Idaho, Montana, Oregon and Washington, where a 5c. differential on tankcars is maintained.
Diacetone, acetone-free, dms., c.l., dlvd. lb. .14 - —
l.c.l., dlvd lb. .15 - —
tanks, dlvd lb. .12 - —
tech., dms., c.l., dlvd lb. .13½- —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .11½- —

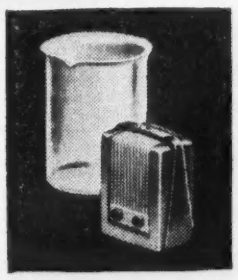


Put This Plant Behind Your Product



Here at Publicker, we maintain that users of our products can no more afford to take chances with quality than we can. Consequently, every drop in every gallon or tank car is exactly according to specifications—always. And Publicker's ultra-modern equipment and vast facilities account for outstanding service to a long list of satisfied customers. May we have the opportunity of meeting *your* requirements?

ETHYL ALCOHOL • BUTYL ALCOHOL, NORMAL
BUTYL ACETATE, NORMAL • ETHYL ACETATE
ACETALDEHYDE • ACETIC ACID GLACIAL
ACETONE C.P. • AMYL ACETATE
FUSEL OIL, REFINED • ISOAMYL ALCOHOL
PACO SOLVENT T.R. 590

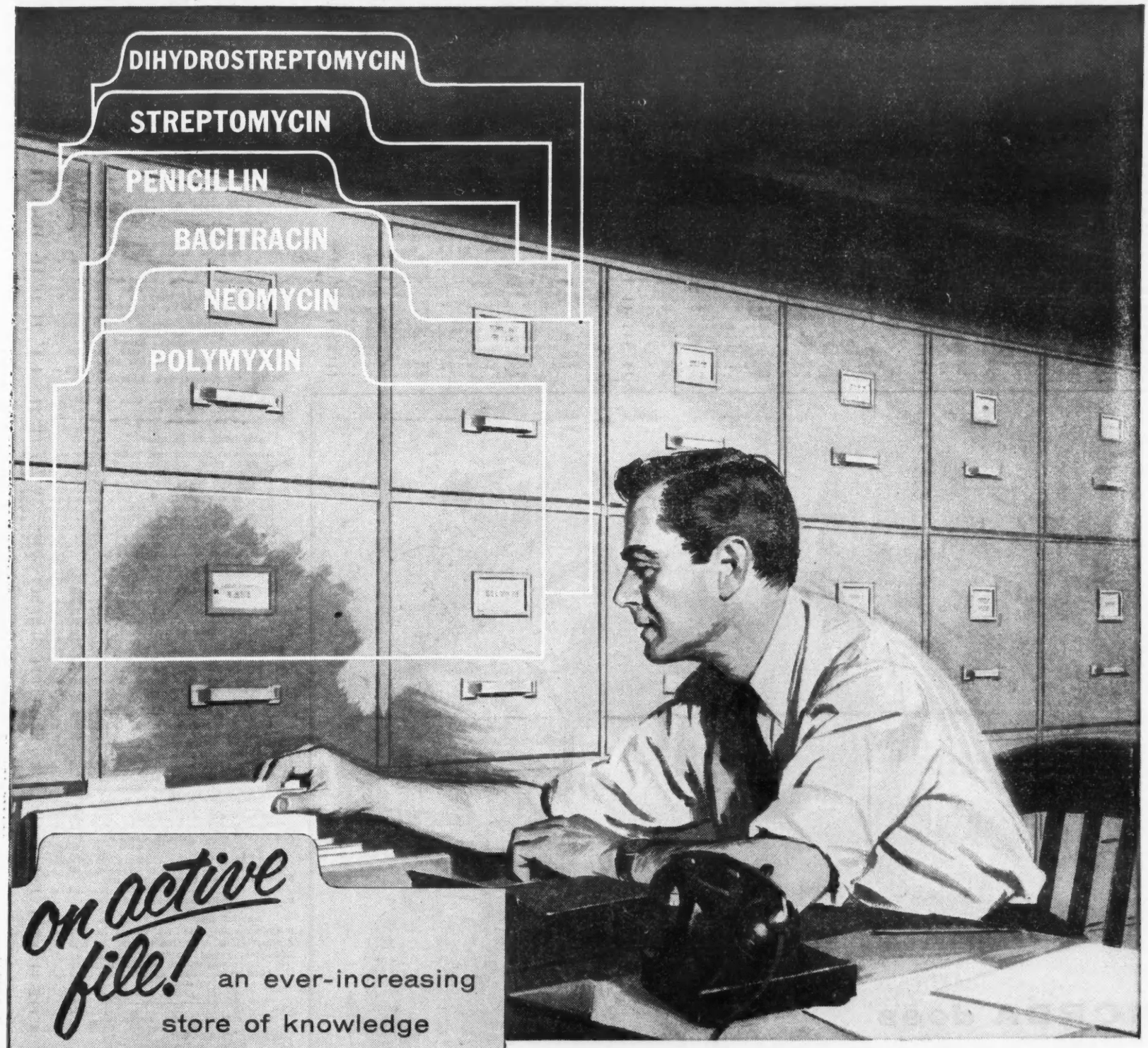


PUBLICKER INDUSTRIES Inc.

1429 WALNUT STREET, PHILADELPHIA 2, PA.

NEW YORK & NEW ENGLAND DISTRIBUTOR, PUBLICKER ALCOHOL & CHEMICALS SALES CORPORATION

PHILADELPHIA—LOCUST 4-1400 • NEW YORK—OXFORD 5-4160 • BOSTON—HOMESTEAD 9-0022
CHICAGO—RANDOLPH 6-6678 • CLEVELAND—CHERRY 1-6140



on active file! an ever-increasing store of knowledge at your disposal when you specify **PFIZER BULK ANTIBIOTICS**

When you come to the world's largest producer of antibiotics, you can be assured of the maximum in up-to-date information, including application data. *Nowhere in the drug industry is this knowledge more important than in the field of antibiotics.* It is a "vital ingredient" in your preparation of successful, profitable antibiotic formulations.

Pfizer has been actively gathering and revising a vast and continually growing fund of such information since 1941, when the Company became one of the pioneer producers of penicillin.

For *informed* and invaluable technical service, look to Pfizer, your source for the most extensive line of quality controlled bulk antibiotics on the market.

Manufacturing Chemists for Over 100 Years Pfizer

CHAS. PFIZER & CO., INC.
Chemical Sales Division
630 Flushing Ave., Brooklyn 6, N. Y.
Branch Offices: Chicago, Ill.; San Francisco, Calif.
Vernon, Calif.; Atlanta, Ga.

Alcohol, Ethyl—Ammonium Pentaborate

Alcohol, ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies gal. 20.48 - —
l.c.l., same basis gal. 20.53 - 20.59
tanks, same basis gal. 20.35 - —
tax free, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
absolute, 200 pf., tax paid, dms., c.l., dlvd. E. of Rockies, gal. 21.58 - —
l.c.l. same basis gal. 21.63 - 21.69
tanks, same basis gal. 21.45 - —
2-Ethylbutyl, dms., c.l., works lb. 29½- —
c.l. works lb. .30 - —
tanks, works lb. .28 - —
2-Ethylhexyl, dms., c.l., dlvd. E. lb. .23¾- —
l.c.l., same basis lb. .24¾- —
tanks same basis lb. .21¾- —
Furfuryl, cns., works lb. .29 - —
dms., c.l., Cedar Rapids, Ia lb. .21 - —
Newark, N. J. lb. .21½- —
l.c.l. Cedar Rapids, Ia lb. .22 - —
Newark, N. J. lb. .22½- —
tanks, Memphis, Tenn lb. .184 - —
Hydroabietyl, tech., soild, Zone 1, dms., c.l., dlvd lb. .27 - —
l.c.l., dlvd. lb. .27½- —
tanks, dlvd. lb. .25 - —
Isoamyl, dms., c.l., works, frt. alld. E lb. .34 - —
l.c.l., same basis lb. .35 - —
tanks, same basis lb. .32 - —
Isobutyl, dms., c.l., dlvd lb. .14 - —
l.c.l. dlvd. lb. .15 - —
tanks, dlvd lb. .12 - —
Iso-octyl, dms., c.l., dlvd. E lb. .23 - —
l.c.l. dlvd. E. lb. .24 - —
tanks, dlvd. E. lb. .21 - —

Alcohol, isopropyl, refd., 91%, dms., c.l., dlvd. gal. .48 - —
l.c.l., dlvd. gal. .55 - —
tanks, dlvd. gal. .35 - —
95%, c.l., dlvd. gal. .50 - —
l.c.l., dlvd. gal. .57 - —
tanks, dlvd gal. .37 - —
99%, dms., c.l., dlvd. gal. .52 - —
l.c.l., dlvd. gal. .59 - —
tanks, dlvd. gal. .39 - —
Lauryl, bots. lb. 2.00 - 2.50
Methyl (see Methanol).
Methylamyl (see Carbinol, methyl-isobutyl).
Octyl, perfumer's grade, bots lb. 1.75 - 3.25
tech. (see Octanol, normal).
2-Phenylethyl, extra, dms. lb. 1.14 - 1.45
standard, dms. lb. 1.18 - 1.48
n-Propyl, dms., c.l., dlvd. lb. .12 - —
l.c.l. dlvd lb. .13 - —
tanks, dlvd lb. .10 - —
Tetrahydrofurfuryl, cns., Cedar Rapids, Iowa lb. .54 - —
dms. c.l., Niagara Falls, N. Y. lb. .44½- —
l.c.l., Newark, N. J., Cedar Rapids, Ia lb. .47 - —
tanks, Niagara Falls, N. Y. lb. .43 - —
Indust. grade, dms., c.l., Niagara Falls, N. Y. lb. .305 - —
l.c.l., Newark, N. J., Cedar Rapids, Ia lb. .33 - —
tanks Niagara Falls, N. Y. lb. .29 - —
Tridecyl, mixed isomers, dms., dlvd. lb. .26 - —
l.c.l., dlvd. lb. .27 - —
tanks, dlvd lb. .24 - —
Wood (see Methanol).
Aldol, 95%, dms., works lb. .23 - —
denaturing grade, dms. gal. 2.15 - —

Aldrin, tech., fib. dms., c.l., t.l., dlvd. lb. .80 - —
l.c.l., dlvd. lb. .85 - —
Aletris root, bgs. lb. 1.75 - 1.85
Algin (see Sodium alginate).
Allethrin, 90%, dms., frt. alld. lb. 28.80 - 28.90
soln., 20%, dms., 200-2,000 lb. lots, frt. alld. lb. 6.50 - 6.55
2½%, dms., frt. alld. lb. .95 - 1.00
Allspice (see Pimento).
Allyl bromide, cbys., works lb. 1.35 - 1.40
Chloride, dms., c.l., dlvd. lb. .17 - —
l.c.l., dlvd. lb. .18 - —
tanks, dlvd. lb. .15 - —
Starch, solid, dms., works lb. .52¾- .54¾
solution, 40%, toluol-butanol, dms., works lb. .25½- .26¼
Aloe, Cape, cs. lb. .45 - .48
powd., cs. lb. .50 - —
Curacao, kgs. lb. .50 - .55
Aloin, USP, bbls., dms., kgs. lb. 3.75 - 3.82
Alphanapthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene).
Alphapicoline (see a-Picoline).
Alphaterpineol (see a-Terpineol).
Alphatocopherol (see a-Tocopherol).
Alum, ammonium, gran., bgs., works 100 lbs. 4.30 - —
lump, dms., works 100 lbs. 5.05 - —
powd., dms., works 100 lbs. 5.20 - —
USP, burnt, dms. lb. .20 - .21
hydrous, dms. lb. .07¾- .08
Potassium, gran., bgs., works, 100 lbs. 4.55 - —
lump, dms., works 100 lbs. 5.30 - —
powd., dms., works 100 lbs. 5.45 - —
USP, burnt, dms. lb. .20 - .21
hydrous, dms lb. .07¾- .08
Potash-chrome, dms. lb. .17 - —
Sodium, dms., c.l., works 100 lbs. 4.60 - —
l.c.l., works 100 lbs. 5.00 - —

Alumina, calcined, bgs., c.l., works, lb. .0385- —
l.c.l., works lb. .0410- .0510
Aluminum acetate, basic soln., 24%, bbls., l.c.l., works lb. .14 - —
Chloride, coml., anhyd., dms., c.l., works, frt. equald. lb. .15 - —
l.c.l., works, frt. equald, lb. .1550- —
cryst., dms., c.l., works lb. .1450- —
l.c.l., works lb. .1500- —
soln., 32° cbys., c.l., works lb. .0445- —
l.c.l., works lb. .0520- .1295
tanks, works 100 lbs. 3.45 - —
NF, gran., dms., works lb. .29 - .30
Fluoride, tech., anhyd., bgs., c.l., works lb. .15¾- —
l.c.l., works lb. .16¾- .18¾
Aluminum fluoride in fib. dms. 0.35c. per lb. higher.
Formate, basic soln., cbys. lb. .09½- —
l.c.l., works lb. .10 - —
Hydrate, heavy bgs., c.l., frt. equald lb. .0285- —
2,000-20,000 lb. lots, same basis lb. .041 - —
bulk, same basis lb. .026 - —
light, bgs., dlvd lb. .17 - —
Hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib. dms., works lb. .22 - —
contract, works lb. .21 - —
9-9½% Al_2O_3, fib. dms., works lb. .19 - —
contract, works lb. .18 - —
dried, USP, XIV, fib. dms., works lb. .82½- —
contract, works lb. .79½- —
tech., powder (see Aluminum hydrate).
Metal, 99%+, ingots, 10,000-lb. lots, frt. alld lb. .232 - —
pigs, 10,000-lb. lots, frt. alld. lb. .215 - —
Oxide, amorphous (see Alumina, calcined).
Paste, lining, extra-fine, dms lb. .63½- —
standard, 200-lb. dms lb. .43 - —
Powder, lining, extra, fine, dms lb. 1.02½- —
standard, 250-lb. dms lb. .72 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb. dm., 3c. per lb. for 10-lb. can and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs. and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S. a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over.

Resinate, precip., 2.1% Al, dms., frt. alld lb. .30½- —
Stearate, dibasic, etns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37
monobasic, etns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37
tribasic, etns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37
Sulfate, coml., bulk, c.l., works, 100 lbs. 1.85 - —
grd., bgs., c.l., works ton 37.00 - —
lump, bgs., c.l., works ton 40.00 - —
iron-free, bgs., c.l., works, frt. equald 100 lbs. 3.55 - —
l.c.l., works, frt. equald, 100 lbs. 3.95 - —
USP, gran., dms., works lb. .16 - .18
powd., dms., works lb. .36 - .37
Trihydrate, heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots oz. 8.00 - 10.00
Aminoazotoluene, base, bbls., 100% basis lb. 1.03 - 1.18
o-Aminobiphenyl, dms., c.l., works lb. .32½- —
l.c.l., works lb. .33 - —
tanks, works lb. .31 - —
Aminoethyl ethanolamine, dms., c.l., dlvd lb. .46½- —
l.c.l., dlvd. lb. .45 - —
tanks, dlvd lb. .45 - —
2-Amino-2-methyl-1-propanol, cns., dms., l.c.l., works lb. .60 - —
m-Aminophenol, dist., dms., ton lots, lb. 2.05 - —
smaller lots lb. 2.30 - —
p-Aminophenol, dms., frt. alld lb. .97 - .98
Aminophylline, USP, 100-lb. dms lb. 3.55 - —
Ammonia, anhyd., fertilizer, tanks, works, frt. equald ton 85.00 - —
pure cyls., extra, zone 1 lb. .18½- —
2 lb. .19 - —
3 lb. .19½- .20
4 lb. .20 - —
5 lb. .21 - —
refrigeration, tanks, works, frt. equald. ton 87.50 - 90.50
aqueous (29.4% NH_3), dms., c.l., dlvd. Metropolitan area 100 lbs. 3.60 - —
l.c.l., works 100 lbs. 4.00 - —
tanks, works, anhyd. basis. ton 96.00 - —
Ammoniac, sal, gray, bgs., c.l., works, frt. equald 100 lbs. 8.25 - —
l.c.l., same basis 100 lbs. 8.65 - 11.15
white gran. (see Ammonium chloride, tech.)
Ammoniacal liquor, tanks, works, anhyd basis ton 96.00 - —
Ammonium acetate, purif., dms lb. .33 - —
Benzoate, USP, dms., kgs., 4,000-lb. lots, frt. alld lb. .80 - —
smaller lots, frt. alld lb. .81 - 1.08
Biborate, gran., dms., c.l., works, ton 317.00 - —
ton lots, ex whse. ton 390.50 - —
smaller lots, ex whse. ton 395.50 - —
Bicarbonate, dom., dms., c.l., works 100 lbs. 6.50 - —
l.c.l., works 100 lbs. 8.00 - —
imp., dms., l.c.l. lb. .07¼- .08¼
Bichromate, dms., works lb. .42 - .43
Bifluoride, dms., dlvd lb. .2145- .2245
Bromide, NF, gran., bbls lb. .39 - —
Powdered ammonium bromide 10c. per lb. higher.
Carbonate, USP, lump, dms lb. .16 - —
Chloride tech., white, fines, gran., bgs., c.l., works 100 lbs. 5.25 - —
l.c.l., works 100 lbs. 7.00 - —
USP, gran., bbls., dms lb. .17¼- —
Citrate, dibasic, bbls lb. .75 - —
dms. lb. .30 - .85
Dichromate (see Ammonium bichromate).
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia, aqueous).
Hypophosphite, NF, dms lb. 3.07 - —
Iodide, NF, dms., bots lb. 4.26 - 4.38
Linoleate, 80%, dms., works lb. .50 - .55
Nitrate, dom., fertilizer grade, 33.5% N., bgs., western, works, frt. equald ton 68.00 - —
with dolomite, 20.5% N, bgs., Hopewell, Va ton 51.00 - —
imp., Canadian, 33.5% N, eastern, bgs., c.l., ship't point, frt. equald to $8 per ton. ton 70.00 - —
western, bgs., c.l., f.o.b. cars, Los Angeles ton 84.89 - —
Oxalate, fine gran., dms lb. .26½- .31
Pentaborate, gran., dms., c.l., works ton 227.00 - —
ton lots, ex whse ton 300.50 - —
smaller lots, ex whse ton 305.50 - —
Ammonium pentaborate powder, $10 per ton higher.

NORDA does
what Nature does . . .

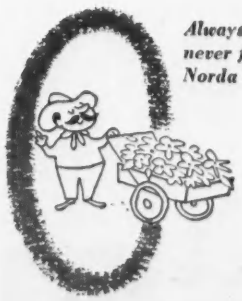
NORDA makes good scents

You know how Nature has given carnations a spicy difference. It's an unforgettable fragrance. Nature knows mysterious ways.

Norda, too, knows ways to create odors with subtle skills. Norda makes many an odor that would not make Nature unhappy.

Use Norda fragrances, and scents, and wonderful odors. Perfume your perfumed products with them. They will give fine quality to your deodorants and your new aerosol mists.

Norda knowledge can save money for you. Send your letterhead for convincing *free* Norda *samples*.



Always remember—
never forget . . .
Norda Makes Good Scents

Norda Essential Oil and Chemical Company, Inc.
601 West 26th Street, New York 1, N. Y.

CHICAGO • LOS ANGELES • SAN FRANCISCO • MONTREAL • HAVANA • LONDON • PARIS • GRASSE • MEXICO CITY

Ammonium perchlorate, kgs., works, lb. .50 - .75
Persulfate, kgs. lb. .46½ - .47½
Phosphate, coml., bgs., c.l., works, frt. equald lb. .0865- —
t.c.l. same basis lb .09 - —
dibasic, NF, V bbls., dms. lb. .46 - —
tech. bgs. c.l works, frt. equald lb. .0865- —
t.c.l., same basis lb. .0915- —
Salicylate, NF, dms., kgs lb. 1.62 - 1.64
Silicofluoride, dms., works lb. .11 - .12
Sulfamate, bgs., c.l., t.l., works, lb. .18 - —
t.c.l., works lb. .22 - —
Sulfate coke-oven, bulk, producing ovens base price ton.42.00 -47.00
June-July shipt ton.39.00 -44.00
Aug.-Sept. shipt ton.40.00 -45.00
Oct.-Nov. shipt ton.41.00 -46.00
syn., bgs. c.l. western, works ton.44.00 - —
bulk works ton 42.00 - —
purif., dms., works lb. .09 - .09½
Sulfide, liq., 40-44%, dms., c.l., frt. equald., 100% basis. ton.240.00 - —
t.c.l., works, 100% basis. ton.300.00 - —
tanks frt alld., 100% basis. ton.180.00 - —
Sulfocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate, tech., dms., c.l., works lb. .20 - —
t.c.l., works lb. .22 - .26
Thioglycollate, coml., cbys., 100% basis lb. 1.35 - 1.55
highly purif. cbys., 100% basis. lb. 1.70 - 1.96
Thiosulfate, cryst., photo grade, fib. dms., frt. alld lb. .65 - —
60% soln., dms., c.l., works lb. .06½- —
d-Amphetamine hydrochloride dibasic, bots lb.28.00 - —
dl, dms lb. 6.00 - —
d-monobasic, bots lb.23.00 - —
d-Phosphate, dibasic, bots lb.28.00 - —
dl, dms lb. 6.00 - —
d-Sulfate, dms lb 28.00 - —
dl, dms lb. 6.00 - —
Amyl acetate, ex fusel oil, tech., dms., c.l., frt. alld. E. of Rockies lb. .22 - —
t.c.l., same basis lb. .23 - —
tanks, same basis lb. .20 - —
ex pentane, reg., dms., c.l., dlvd. lb. .17 - —
t.c.l., same basis lb. .18 - —
tanks, same basis lb. .15 - —
tech., dms., c.l., dlvd. lb. .15 - —
t.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
Alcohol (see Alcohol amyl).
n-butyrate, dms. lb. .90 - 1.23
Cinnamic, aldehyde, dms lb. 1.75 - 2.20
Nitrite, USP, bots lb. 1.75 - 1.83
Salicylate, cns., dms lb. .74 - 1.05
o-tert-Amyl phenol, dms., c.l., works, lb. .48 - —
t.c.l., works lb. .49 - —
tanks, works lb. .46 - —
p-tert-Amyl phenol, dms., c.l., works, lb. .24¾- —
t.c.l. works lb. .25¾- —
tanks, works lb. .23¾- —
Anethole, NF, cns., dms lb. 1.85 - —
tech., dms lb. 1.10 - —
Angelica root, dom., bls lb. .60 - .70
Anise seed, Mexican, bgs. lb. .35 - —
Spanish, bgs. lb. .35 - —
Syrian, bgs. lb. No prices.
Aniline oil, dms., c.l., works, frt. alld lb. .21 - —
t.c.l., works, frt. alld lb. .22 - —
tanks, works, frt. alld lb. .20 - —
Salt, dms., c.l., truckloads, 20,000 lbs., min., frt. alld lb. .31 - —
t.c.l., same basis lb. .33 - —
Anisic aldehyde, bots., dms lb. 1.80 - 2.70
o-Anisidine, dms., works lb. .88 - —
p-Anisidine, dms., works lb. .97 - —
Annatto seed, whole, bgs. lb. .24 - —
powd., dms. lb. .28 - —
Anthracene, 90-95%, bbls., ton-lots, works lb. .70 - —
smaller lots, works lb. .95 - —
Anthraquinone, 99.5%, bbls, c.l., frt. alld lb. .83 - —
t.c.l., same basis lb. .86 - —
electrical grade, bbls., t.c.l., same basis lb. .91 - —
Antimony butter (see Antimony trichloride).
Metal, bulk, c.l., mines lb. .28½- —
cs., c.l., mines lb. .29 - —
Oxide, bgs., c.l., frt. alld lb. .27 - .29
t.c.l., frt. alld lb. .28½- .30½
Sulfide, approx. 65%, bgs., dlvd. lb. .28½- .31½
Trichloride anhyd., pails, c.l., works lb. .38½- —
t.c.l., works lb. .40½- —
USP, powd., dms lb. .64 - .65
Antimony-potassium tartrate, tech., powd., dms lb. .60½- .65½
Antipyrine, NF, 200-lb. bbl lb. 3.50 - —
Apomorphine hydrochloride, USP, bots oz.23.40 -23.90
Areca nuts, powd., bbls lb. .15 - .16
Arecoline hydrobromide, NF, pots., tins oz. 4.50 - 6.00
l-Arginine monohydrochloride, dms., 1 kilo lots kilo.74.00 -83.00
Arnica flowers (true montana), bls. lb. 3.00 Nom.
Arsenic metal, lump, bbls., ex whse. lb. .54 - —
Trioxide, USP, dms lb. .48 - —
White, powd., bbls., c.l., dlvd. lb. .05½- —
t.c.l., dlvd lb. .06½- .07½
Asafetida, cs lb. .36 - .39
powd., bbls., dms lb. .50 - .53
Asbestine (see Talc, fibrous, N. Y.)
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines ton.1,300.00- —
No. 2, c.l. (20 tons), mines ton.675.00 - —
Run-of-mine, c.l., (20 tons), mines ton.556.00 - —
3K, c.l. (20 tons), mines ton.436.00 - —
3R, c.l. (20 tons), mines ton.371.00 - —
3T, c.l. (20 tons), mines ton.348.00 - —
3Z, c.l. (20 tons), mines ton.321.00 - —
4K, c.l. (20 tons), mines ton.173.00 - —
4M, c.l. (20 tons), mines ton.173.00 - —
4T, c.l. (20 tons), mines ton.156.00 - —
4Z, c.l. (20 tons), mines ton.156.00 - —
5D, c.l. (20 tons), mines ton.122.50 - —
5K, c.l. (20 tons), mines ton.122.50 - —
5M, c.l. (20 tons), mines ton.116.50 - —
5R, c.l. (20 tons), mines ton.110.00 - —
6D, c.l. (30 tons), mines ton.78.00 - —
7D, c.l. (30 tons), mines ton.68.50 - —
7F, c.l., (30 tons), mines ton.65.00 - —
7H, c.l. (30 tons), mines ton.55.00 - —
7K, c.l. (30 tons), mines ton.46.00 - —
7M, c.l., (30 tons), mines ton.40.00 - —
7R, c.l. (30 tons), mines ton.39.00 - —
7RF, c.l. (30 tons), mines ton.40.00 - —
7T, c.l. (30 tons), mines ton.37.00 - —
7TF, c.l. (30 tons), mines ton.40.00 - —
8S, c.l., (30 tons), mines ton.27.00 - —

Asbestos c.l. prices are in U. S. funds, t.c.l. lots, $4 per ton higher.

Asphalt, gilsonite, black, jet, bgs., c.l., mines ton.37.00 - —
select, 350° F., fusing pt., bgs., c.l., mines ton.38.00 - —
270°-295°F., fusing pt., bgs., c.l., mines ton.37.00 - —
seconds, 300°-390°F. fusing pt., bgs., c.l., mines ton.32.00 - —

Asphalt, manjak, No. 10, crude, dms., works lb. .06¼- —
petroleum, cut-back, tanks, tankwagon, refy gal. .09 - —
emulsion, tanks, tankwagon, refy gal. .09½- .10
steam-refd., 50-80 penetration, tanks, tankwagon, refy ton.21.00 - —
85-300 penetration, tanks, tankwagon, refy ton.20.00 - —
Aspirin (see Acid, acetylsalicylic).
Atropine, USP, bots oz. 6.25 - 6.75
Sulfate, USP, bots oz. 4.00 - 4.20

B

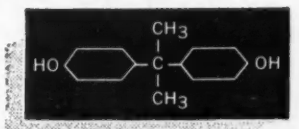
Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .70 - —
less than 1,000,000,000 units 50,000 units. .75 - —
Balm of Gilead buds, dried, bgs lb. 1.35 - 1.45
Barberry, root bark, bgs lb. .28 - .30
Barbital, USP, 100-lb. dms lb 4.50 - —
Sodium, USP, dms lb 4.75 - 4.77
Barium carbonate, precip., bgs., c.l., works ton.92.50 - —
smaller lots, works ton.102.50 - —
Chlorate, kgs., works lb. .32 - .36
Chloride, anhyd., bgs., c.l., works. ton.158.00 - —
t.c.l., works ton.168.00 - —
NF, cryst., dms. lb. .20 - —
tech., cryst., dms., c.l., works. 100 lbs. 6.00 - —
t.c.l., works 100 lbs. 6.50 - —
Chromate, bgs., frt. equald lb. .33 - —
Dioxide (see Barium peroxide).
Hydrate cryst., bgs ton.180.00 -190.00
Monoxide (see Oxide)
Nitrate, bbls., c.l., works lb. .12½- —
t.c.l., works lb. .14 - —
Barium oxide, grd., dms., frt. equald. ton.255.00 - —
t.c.l. works ton 265.00 - —
Peroxide, dms., works lb. .16 - —
Stearate, cns., c.l., frt. and lb. .37 - —
t.c.l., same basis lb. .38 - .42
Sulfate, tech. (see Barytes and Blanc fixe).
X-ray, dms. lb. .15 - .15½
Sulfide, dms., c.l., works ton.85.00 - —
t.c.l works ton 95.00 - —
Barytes, Southern, off-color, bgs., mines ton.25.00 - —
95-75%, bgs., mines ton.25.00 - —
water-grd., paper bgs., c.l., E. St. Louis ton.41.60 - —
ex-whse., N. Y. ton.60.10 - —
Bauxite, bulk, mines ton. 9.50 -10.00
Bay leaves (see Laurel leaves).
Belladonna leaf, bls lb. .35 - .37
root, bls lb. .45 - .50
Bentonite, dom., 200 mesh, bgs., c.l., mines ton.14.00 - —
imp. Italian, white, high gel., bgs., 5-ton lots, ex whse ton.80.60 - —
1 ton-lots, ex whse ton.83.10 - —
low gel., bgs., 5-ton lots, ex whse ton.78.95 - —
1-ton lots, ex whse ton.81.45 - —
Benzal chloride, cbys., works lb. .22 - .23½
Benzaldehyde, NF, dms lb. .74 - 1.05
tech., cbys., dms lb. .44 - —
Benzene (see Benzol).
Hexachloride, 25% and 99% gamma isomer (see Lindane).
tech., high gamma, bgs., c.l., dlvd., gamma unit-lb. .0075- —
t.c.l., works, gamma unit-lb. .009 - —

Ammonium Perchlorate—Benzoyl Peroxide

Benzene hexachloride, tech., low gamma, bgs., c.l., dlvd., gamma unit-lb. .0075- —
t.c.l., works, gamma unit-lb. .009 - —
Benzidine hydrochloride, bbls., frt. alld., 100% basis lb. 1.00 - —
Benzocaine, dms. lb. 3.48 - 3.50
Benzol, coaltar, pure or nitration, tanks, works:—
Bethlehem, Pa. gal. .36 - —
Birmingham district gal. .36 - —
Chicago district gal. .36 - —
Cleveland district gal. .36 - —
Geneva, Utah gal. .36 - —
Johnstown, Pa. gal. .36 - —
Lackawanna, N. Y. gal. .36 - —
Lone Star, Texas gal. .36 - —
Lorain, Ohio gal. .36 - —
Middletown, Ohio gal. .36 - —
Minnequa, Colo gal. .36 - —
Philadelphia district gal. .36 - —
Pittsburgh district gal. .36 - —
Sparrows Point, Md. gal. .36 - —
Syracuse, N. Y. gal. .36 - —
Terre Haute, Ind. gal. .36 - —
Youngstown, Ohio gal. .36 - —
Benzophenone dms lb. 1.40 - 1.70
Benzotrichloride, cbys., frt. equald. lb. .18 - .20
Benzoyl chloride, cbys., dms., c.l., works, frt. equald lb. .22 - —
t.c.l., same basis lb. .23 - —
tank trucks, dlvd. Metropolitan area lb. .21 - —
Peroxide, purif., fib. dms., 50 to 1,000-lb. lots, works lb. .98 - 1.08

Shell Chemical Corporation

...your new major source of high-purity BISPHENOL A



If your production calls for high-purity, uniform Bisphenol A, you will be glad to know that—thanks to expanded facilities—Shell Chemical is now a *major* source of this important intermediate.

For epoxy and phenol-formaldehyde resin manufacture in particular, you will want Shell Bisphenol A. Its quality is the result of Shell Chemical's careful control in production.

Shell Bisphenol A is supplied in flake form, packed in multiwall 50-pound bags for ease of handling. Your letterhead request will bring a sample for evaluation and a new technical bulletin.

SHELL CHEMICAL CORPORATION
CHEMICAL PARTNER OF INDUSTRY AND AGRICULTURE
380 Madison Avenue New York 17, New York
Atlanta • Boston • Chicago • Cleveland • Detroit • Houston • Los Angeles • Newark • New York • San Francisco • St. Louis
IN CANADA: Chemical Division, Shell Oil Company of Canada, Limited • Montreal • Toronto • Vancouver

Benzyl Acetate—Butyric Ether

Benzyl acetate, f.f.c., cns., dms lb. .62 - 1.04
Alcohol (see Alcohol, benzyl).
Benzoate, USP, f.f.c., cns., dms lb. .62 - 1.10
Chloride, tech., 13-gal. cbys., dms., c.l., works, frt. equald lb. .23 - —
l.c.l., same basis lb. .24 - —
tank trucks, same basis lb. .21 - —

A 2½c. differential is quoted on benzyl chloride in 5-gal. cbys. In steel dms. prices were ½c. lower.

Cinnamate, cns. lb. 3.60 - 3.90
Formate, cns. lb. 1.30 - 2.10
Isoeugenol, cns. lb. 8.60 - 9.10
Propionate, bots. lb. 1.35 - 1.65
Salicylate, bots. lb. 1.50 - 1.85
Benzylidine acetone, bots lb. 1.68 - 1.80
Chloride (see Benzal chloride).
Berberine bisulfate, cns lb. 35.00 -36.25
Hydrochloride, bots. lb. 35.00 -36.25
Betagammapicoline (see b.g-Picoline).
Betamethylnaphthalene (see b-Methylnaphthalene)
Betanaphthol (see b-Naphthol).
Betanaphthylamine (see b-Naphthylamine).
Betaphenylethylamine (see b-Phenylethylamine).
BHC (see Benzene hexachloride, technical)
Biotin cryst., bots gram 10.00 - —
Biphenyl (see Diphenyl).
Bismuth chloride, jars lb. 5.11 - —
Hydroxide, dms. lb 4.65 - —
Metal, bxs., ton lots lb. 2.25 - —
Nitrate, cryst., dms lb. 2.10 - 2.17
Oxide, anhyd., dms lb. 4.47 - 5.05
Oxychloride, dms lb. 4.37 - 4.42
Phenolsulfonate, fib. dms lb. 5.22 - —
Subcarbonate, USP, dms lb. 3.20 - —
Subgallate, NF, fib. dms lb. 3.15 - —
Subiodide, fib. dms. lb. 5.37 - —
Subnitrate, NF, dms lb. 2.65 - —
Subsalicylate, USP, dms lb. 3.50 - —
Bismuth-ammonium citrate, USP, powd., jars lb. 4.22 - —
Black, acetylene, bgs., c.l., duty and freight extra lb. .17 - —
cs., l.c.l., ex whse. lb. .22½- .26
Ash (see Barium sulfide).
Bone, dms. l.c.l., frt. alld lb. .17 - .23¼

Pacific coast bone black prices, 2c. per lb. higher

Carbon, channel, pigment, high color, beads, ctns., c.l., works. lb. .72 - —
l.c.l., dlvd. or whse. lb. .78 - —
medium color, uncompressed, bgs., c.l., works. lb. .12 - —
l.c.l., dlvd. or whse. lb. .19 - —
rubber, beads, bulk, c.l., works lb. .07 - —
bgs., c.l., works lb. .074 - —
l.c.l., works lb. .1225- —
furnace, fast extruding, bgs., c.l., works lb. .06 - —
ctns., l.c.l., whse lb. .10 - —
high abrasion, bulk, c.l., works. lb. .0750- —
bgs., c.l., works lb. .0790- —
l.c.l., dlvd. or whse lb. .122 - .125
high modulus, bgs., c.l., works. lb. .0550- —
ctns., l.c.l., whse lb. .0950- —
semi-reinforcing bgs., c.l., works lb. .045 - —
bgs., ctns., l.c.l., whse lb. .085 - —
Black, charcoal (see C).
Dyes (see Dyes).
Graphite (see G).
Iron oxide, pure, bgs., c.l., works. lb. .13¼- —
l.c.l., works lb. .13½- —
Lamp, bgs., c.l., works lb. .16 - .45
Mineral, bgs., works lb. .0160- .0675
Blackberry root bark, bls lb. .45 - —
Black haw root bark, bls lb. .63 - .65
tree bark, bls lb. .40 - .45
Blanc fixe, dry, byproduct, bgs., c.l., works ton 190.00 - —
l.c.l., works ton 200.00 - —
direct process, bgs., c.l., works. ton 100.00 - —
l.c.l., works ton 110.00 - —
N. Y. whse ton 140.88 -165.00
Bleaching powder, dms., c.l., works. 100 lbs. 5.02 - —
l.c.l., works 100 lbs. 6.52 - —
Blood, dried, 16-16½% ammonia, bgs. unit-ton. 5.50 - —
high-grade, unground, 16-17% ammonia, bgs., Chicago. unit-ton. 6.00 - —
soluble, bgs., c.l. lb. .14 - 17
l.c.l. lb. .18 - .25
Bloodroot, bls. lb. .48 - .50
Blue, alkali, dry, 250-lb. bbls., dlvd. N. or Tenn. and N. C., E. of Miss. R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 2.10 - —
toner, 125-lb. bbls., litho flushed, same basis lb. 1.20 - —
Chinese, bbls., same basis lb. .49 - —
Cobalt, genuine, bbls., same basis lb. 4.90 - —
Imitation (see Blue ultramarine).
Dyes (see Dyes).
Iron (see Blue, Chinese Milori, Potash, Prussian and Soda).
Methyl violet toner, molybdated, PMA, bbls., same basis lb. 2.60 - —
tungstated, PTMA, bbls., same basis lb. 4.00 - —
Milori, bbls., same basis lb. .49 - —
Peacock, fugitive, 100% color strength, bbls., same basis. lb. .75 - —
Phthalocyanine, full strength, bbls., same basis lb. 3.45 - —
resinated, bbls., same basis lb. 3.00 - —
water dispersable, bbls., same basis lb. 1.54 - —
Potash, CP, bbls., same basis lb. .56 - —
Prussian, insoluble, bbls., same basis lb. .49 - —
soluble, bbls., same basis lb. .49 - —
Soda, CP, bronze, bbls., same basis lb. .56 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .30½- .35
jobbing types, bbls., same basis. lb. .16½- .18½
regular types, dry, bbls., same basis lb. .22½- .35
Victoria toner, molybdated, PMA, bbls. lb. 4.10 - —
tungstated, PTMA, bbls lb. 5.15 - —

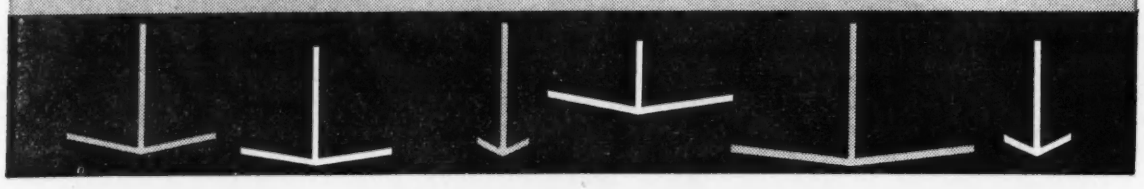
Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport 1¼c.), Miss., N. C., S. C., Tenn., Tex. (El Paso 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher. Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.

Vitrol (see Copper sulfate).
Bluestone (see Copper sulfate).
Bonemeal, steamed, works, E. ton 65.00 - —
Los Angeles ton 82.00 - —
Bone phosphate defluorinated (see D)
of lime (see Calcium phosphate, tribasic).
precipatated (see Calcium phosphate tribasic, NF, precip.).
Borax, tech., anhyd., 99½%, bgs., c.l., works ton 78.00 - —
ton lots ex whse. N. Y. or Chicago ton 125.75 - —
bulk, c.l., works ton 70.00 - —
cryst., 99½%, bgs., c.l., works. ton 67.25 - —
ton lots, ex-whse., N. Y. or Chi ton 115.00 - —
smaller lots, same basis. ton 120.00 - —
gran., decahydrate, 99½%, bgs., c.l., works ton 41.25 - —
ton lots, ex whse., N. Y., Chi ton 89.00 - —
smaller lots, same basis. ton 94.00 - —
bulk, c.l., works ton 35.75 - —
pentahydrate, 99½%, bgs., c.l., works ton 55.50 - —
ton lots, ex whse., N.Y., Chi ton 108.25 - —
smaller lots, same basis. ton 103.25 - —
powd., 99½%, bgs., c.l., works. ton 46.25 - —
ton lots, ex-whse., N. Y. or Chi. ton 94.00 - —
smaller lots, same basis. ton 99.10 - —

Borax packed in kgs., $45.50 per ton higher than in paper bgs.; in barrels, $24.50 higher. USP borax $15 per ton higher.

Bordeaux mixture, bgs., c.l., works, frt. alld, or nearest whse. pt. lb. .18 - .24
l.c.l., same basis lb. .19 - .26
Borneol, cns lb. 2.50 - 4.50
Borontrifluoride gas, cyls., truckload, works lb. .62 - —
lers truckload, works lb. .70 - —
Brazilwood extract (see Hypernic extract).
Brimstone (see Sulfur).
Bromine, purif., cs., c.l., t.l., dlvd. E. of Rockies lb. .31 - —
l.c.l., same basis lb. .33 - .38
ret. dms., c.l., t.l., dlvd. E. of Rockies lb. .30 - —
l.c.l., same basis lb. .30 - .32
tanks, same basis lb. .21½- —
Bromochloromethane, dms., c.l., frt. equald lb. .48 - —
l.c.l., same basis lb. .50 - —
Bromoform, pharmaceutical grade, bots lb. 1.62 - 2.60
cbys. lb. 1.52 - —
Bromstyrol, bots lb. 5.40 - 5.70
Bronze powder aluminum (See A).
Brown, iron oxide, pure, bgs., c.l., works lb. .14¼- —
l.c.l., works lb. .14½- —
Oxide, metallic, bgs., works lb. .04 - —
Sienna, burnt, paper bgs., c.l., works lb. .04¼- .15¼
l.c.l., works lb. .04½- .15½
raw, paper, ogs., c.l., works lb. .04½- .13
l.c.l. works lb. .04¾- .13¼
Umber, burnt, American, bgs., c.l., works lb. .06 - —
l.c.l., works lb. .06¼- .07
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y. lb. .06¾- —
l.c.l., works lb. .07 - —
raw, American, bgs., works lb. .06¾- .06¼
Turkey-type, bgs., works lb. .06¾- .07
Vandyke bbls., works lb. .09½- .12
Brucine, cns., 100-oz. lots oz. .20 - .25
Sulfate, NF, cns., 100-oz. lots oz. .15 - .20
Buchu leaves, bls lb. .65 - —
Butadiene, refd., cyls., refy lb. .22 - —
tanks, refy lb. .15 - —
Butane, indust., tanks, group 3 gal. .02½- —
N. Y. harbor gal. .08 - —
n-Butyl acetate, ferment., dms., c.l., frt. alld lb. .15 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
syn., dms., c.l., dlvd. E lb. .15 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
Alcohol (see Alcohol, n-Butyl).
sec-Acetate, syn., dms., c.l., dlvd. E lb. .12½- —
l.c.l., same basis lb. .13¼- —
tanks, same basis lb. .10¾- —
Aldehyde (see Butyraldehyde).
Chloride, dms., c.l., works lb. .37½- —
l.c.l. works lb. .38 - —
Ether, dms., c.l., works lb. .31½- —
l.c.l., works lb. .32 - —
tanks, works lb. .30 - —
Lactate, dms., c.l., frt. alld. E. of Rockies lb. .35 - —
l.c.l., same basis lb. .36 - —
tanks, same basis lb. .33 - —
Laurate, dms., works lb. .39 - —
Methacrylate, dms., c.l., t.l., works. lb. .70 - —
l.c.l., works lb. .55½- —
Oleate, refd., dms., l.c.l., works lb. .32 - —
Phenylacetate, dms lb 4.50 - 4.60
Phthalate (see Dibutyl phthalate).
Stearate, dms, l.c.l., frt. equald lb. .24 - .27
Butylamine (see mono-, di-, and tri-).
6-tert-Butyl-m-cresol, dms., c.l., works lb. .49 - —
l.c.l., works lb. .50 - —
tanks, works lb. .48 - —
p-tert-Butylphenol, bgs., c.l., works. lb. .25½- —
l.c.l., works lb. .26½- —
Butyraldehyde, dms., c.l., dlvd lb. .21½- —
l.c.l. dlvd lb. .22½- —
tanks, dlvd lb. .19½- —
Butyric ether (see Ethyl butyrate).

There have to be reasons why a company is the leader



Oronite is the leading producer of detergent raw materials

To hold the position, year after year, as the world's largest producer of detergent raw materials, Oronite must maintain the highest standards of product quality and service. Beyond this, Oronite conducts a continuous research program on detergents that is second to none. Add together product quality, service, continuous research and competitive pricing and you have the reasons why Oronite is the world leader.

Have you investigated Oronite as a detergent raw material source?

Why not talk over your needs with an Oronite detergent specialist. Whatever your requirements — liquid, paste or dry — Oronite has a product worth your checking on. Write or phone the Oronite office nearest you for technical bulletins or request a personal call.

Oronite Surfactants

Detergent Alkane (Basic Raw Material)
Detergent Slurry
Detergent D-40
Detergent D-40 SF
Detergent D-40 FG
Detergent D-60
Purified Sulfonates
Purified Sulfonate "L"
Sodium Sulfonate No. 5
Wetting Agent
Wetting Agent "S"
Dispersant NI-W
Dispersant NI-O

ORONITE CHEMICAL COMPANY

200 Bush Street, San Francisco 20, California
30 Rockefeller Plaza, New York 20, New York
714 W. Olympic Blvd., Los Angeles 15, Calif.
20 North Wacker Drive, Chicago 6, Illinois
Mercantile Securities Building, Dallas 1, Texas
Carew Tower, Cincinnati 2, Ohio

ORONITE CHEMICAL COMPANY

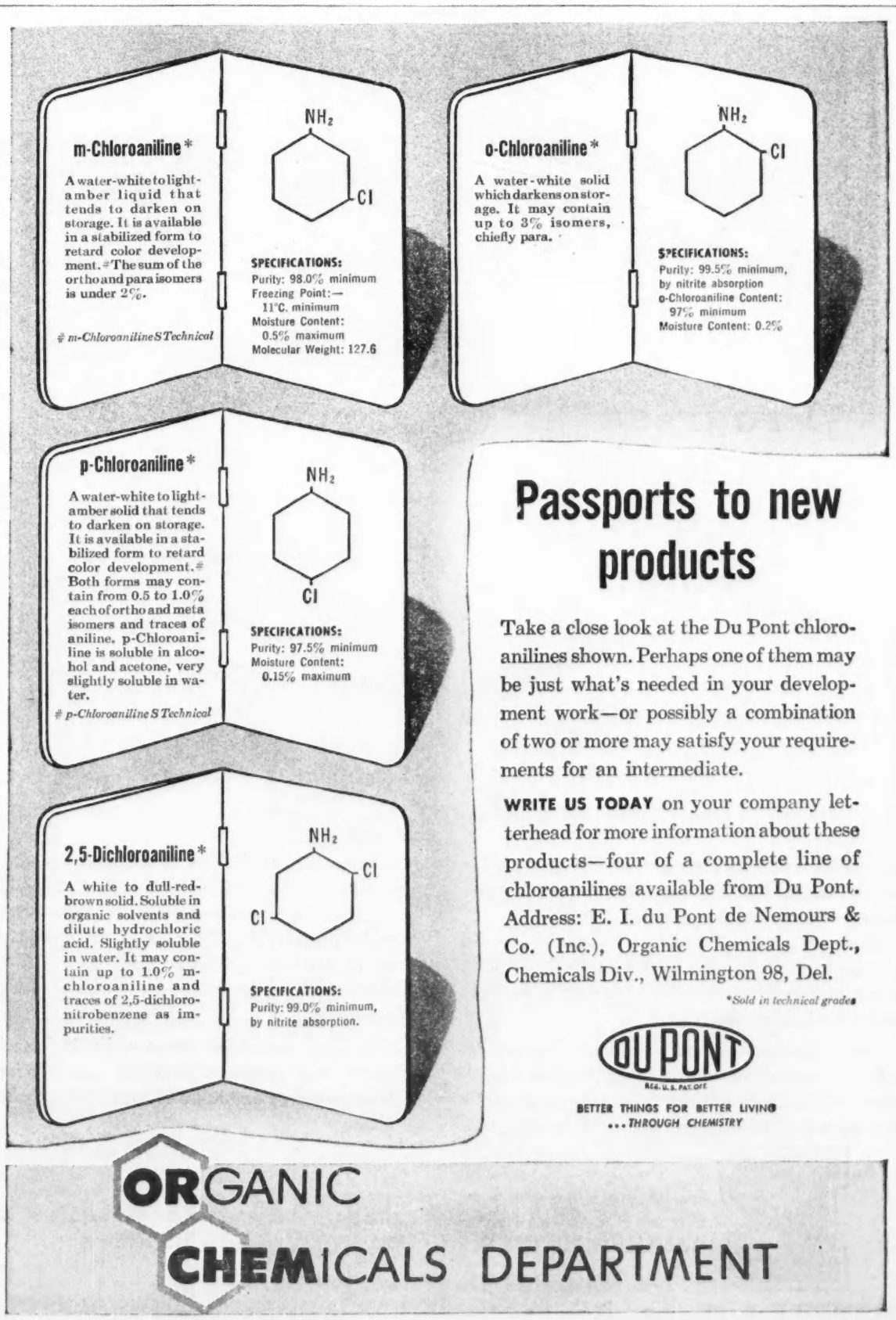
8448

C

Cacao butter (see Cocoa butter).
Cadmium iodide, 25-lb. fib. dms lb. 6.75 - 7.00
Metal ingots or sticks, cs., dlvd. lb. 1.70 - —
Caffeine, USP, nat., cryst., anhyd., dms., 100-lb. lots or more lb. 3.35 - —
hydrous, dms., 100-lib. lots or more lb. 3.15 - —
syn., cryst., anhyd., dms., 100-lb. lots or more lb. 3.35 - —
hydrous, 100-lb. lots or more. lb. 3.15 - —
citrated, USP, dms., 100-lb. lots or more lb. 2.90 - —
Calamine, USP, dms lb. .34 - —
Calciferol, cryst., vials, 1-kilo lots, works gram. .60 - —
25 to 100 gram lots, works. gram. .65 - —
in edible oil (see Viosterol).
Calcium p-aminosalicylate, fib., dms., 1,000 lb. lots, frt. adjusted lb. 7.00 - —
smaller lots same basis lb. 7.05 - 7.50
Arsenate, dealers, dms., c.l., whse. works, frt. alld. on 95 lbs. or over lb. .09 - .10
t.c.l., same basis lb. .10
Bromide, NF, jars lb. .90 - .94
Carbide, standard generator size, dms., c.l., dlvd ton.134.40 - —
Carbonate, nat., dry-grd., air floated, 325 mesh, bgs., c.l., works ton. 7.50 -10.00
chalk, whiting, 325 mesh, bgs., works ton 32.00 -34.00
water-grd., ½ to 10 microns, bgs., c.l., works ..ton.30.00 - —
10 to 20 microns, bgs., c.l., works ton 17.00 -18.00
precip. dense ogs. c.l., works. ton.30.00 -33.00
t.c.l., works ton.40.00 -48.00
medium, bgs., c.l., works. ton 35.00 —
t.c.l., works ton 45.00 -50.00
surface treated, bgs., c.l., works ton.35.00 -50.00
t.c.l., works ton 45.00 -65.00
ultrafine, bgs., c.l., works ton.110.00 160.00
t.c.l., works ton 120.00 -175.00
Chloride, cryst., purif., dms .. lb. .27 - —
flake, 77-80%, paper bgs., c.l., works, frt. equald ton.27.00 - —
liquor, 40%, tanks, frt. equald. ton.11.35 - —
pellets, bgs., c.l., works....ton.33.00 - —
powd., bgs., c.l., works ....ton.37.65 - —
solid, 73-75%, dms., c.l., frt. equald ton.23.50 —
t.c.l., works, same basis. ton.34.00 -71.00
USP, gran., dms. lb. .32 - —
Chromate, bgs., frt. equald... lb. .29½- .30
Cyanide, dms., dlvd. E. of Rockies lb. .24 - .50
Cyclamate, fib. dms., 5,000 lbs. or more lb. 2.95 - —
2,550-5,000-lb. lots lb. 3.10 - —
1,000-2,500-lb. lots lb. 3.25 - —
Gluconate, AA, bbls., dms.... lb. .70 - .72
USP, bbls., dms lb. .93 - .95
Glycerophosphate, NF, fib. dms. lb 2.30 2.45
Hydride, dms., works lb. 2.15 3.00
Hypochlorite, high test, cased (45 lbs.), dlvd. E. of Rockies cs.22.60 -24.75
dms. 100-lb. same basis.dm 28.65 -32.50
Hypophosphite, dms., ton lots or less lb. .90 - .93
Iodide, jars lb. 4.52 - —
Lactate, USP, dms., 10,000-lb. lots or more, works lb. .40 - —
smaller lots, works lb .41 - .48
Mandelate, USP, dms., works lb. 2.10 2.25
Naphthenate, liq., 4%, Ga., dms., frt. equald lb. .27¼- —
Nitrate, fertilizer grade, bgs., c.l., Los Angeles..ton.46.00 - —
tech., dms., works lb. .13 - —
Pantothenate, jars, 100-fram lots or more, frt. adjusted gram. .07½- —
Para-aminosalicylate (see Calcium p-Aminosalicylate).
Phenolsulfonate, dms lb. .70 - —
Phosphate dibasic, USP, bgs., c.l., frt. equald 100 lbs. 7.10 - —
t.c.l., frt. equald 100 lbs. 7.60 - 7.95
feed grade, 18½% P, bgs., c.l., t.l., frt. equald..ton.79.55 - —
t.c.l., frt. equald..ton.88.80 -89.55
20% P, bgs., c.l., t.l., frt. equald..ton.84.55 - —
t.c.l., frt. equald..ton.96.00 - —
21% P, bgs., c.l., t.l., frt. equald..ton.90.30 - —
t.c.l., frt. equald..ton.100.30 -100.80
monobasic, bgs., 10,000-lb. lots, frt. equald 100 lbs. 6.05 - —
smaller lots, same basis. 100 lbs. 6.55 - —
tribasic, precip., NF, bgs., c.l., frt. equald. 100 lbs. 7.60 - —
t.c.l., frt. equald. 100 lbs. 7.95 - —
Phytate, bgs., works lb. .87 - —
Resinate, precip., dms., frt. alld., works lb. .30½- —
Silicate, hydrated, bgs., c.l., works. lb. .06 - —
t.c.l., works lb. .06½- —
paint grade (see Wollastonite).
Stearate, ctns., c.l. lb. .35 - —
t.c.l. lb. .36 - .40
Sulfate (see Gypsum).
Calomel, USP, powd., dms lb. 5.42 - —
Camphene 46° m.p., dms., incl., c.l., works lb. .128 - —
t.c.l., same basis lb. .143 - —
tanks, same basis lb. .103 - —
Chlorinated 67-69% (see Toxaphene).
Camphor, monobromated, NF, dms., kgs lb 3.00 - 3.12
nat., USP, powd., cs., 100-lb. lots. lb. .60 - .65
tablets, 1-oz., ½-oz. cs lb. .75 - .80
syn., tech., 1 bbl. or more lb. .52 - —
USP, gran., powd., bbls, 2,000-lb. lots lb. .59 - —
1,000-lb. lots lb. .60 - —
smaller lots lb. .61 - —
tablets, tins, 2,000-lb. lots lb. .90 - —
1,000-lb. lots lb. .91 - —
smaller lots lb. .92 - —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs lb. 2.00 - 2.05
powd., bxs lb. 2.25 - 2.30
Russian, bgs lb. 4.00 - 4.05
powd., bxs lb. 4.35 - 4.40
Capsicum (see Pepper red).
Oleoresin, NF, from domestic pepper, dms lb. 4.50 - 5.25
from African pepper, dms.... lb. 4.35 - 5.00
Caraway seed, Dutch, bgs lb. .17¾- .18
Carbazole, 97%, bbls., ton lots, works lb. 1.05 - —
Carbinol, methyl isobutyl (see Methyl isobutyl carbinol).
Carbon dioxide, indust., wholesale, bulk, dlvd. metropolitan area. ton.73.00 -115.00
cyls., same basis lb. .08 - —
solid, same basis lb. .035 - .040
Disulfide, 55-gal. dms., c.l., works, frt. alld. to competitive points lb. .07 - —
t.c.l., same basis lb. .08½- .09
Carbon disulfide, 5-gal. dms., 30 dms., to c.l., same basis lb. .13 - —
less than 30 dms lb. .16 - —
tanks, same basis lb. .0515- —
Tetrachloride, CP, consumers, dms., t.c., t.c.l., frt. alld lb. .11½- .13¼
tech., consumers, dms., c.l., E. Rockies, frt. alld lb. .10½- —
W. of Rockies, f.o.b. stockpoints lb. .11 - —
t.c.l., E. of Rockies, frt. alld lb. .12¼- —
W. of Rockies, f.o.b. stockpoints lb. .12¾- —
tanks, E. of Rockies, frt. alld lib. .09 - —
W. of Rockies, f.o.b. stockpoints lb. .09½- —
Carboxymethyl cellulose (see CMC).
Carbromal NF, dms. 100-lb lots, works lb 4.00 4.25
smaller lots works lb 4.10 4.75
Cardamom fruit, fancy, bold, cs lb. 3.95 - —
selected, b'eached, cs lb. 3.50 - —
decorticated, Guatemalan, cs lb. 2.25 - —
Guatemalan, cs. lb. 2.10 - —
green, Ceylon, bgs lb. 2.10 - 2.20
seed (see Cardamom fruit decorticated).
Carmine, No. 40, NF, bulk, 100-lb. lots or more, dlvd lb.14.40 - —
smaller lots, dlvd lb.14.50 -15.20
Carotene, tech. 1,350,000 A units per gram, tins, works gram. .48 - —
in carrot oil, 5,000,000 to 8,000,000 A units per lb., dms., works, million units .18 - —
microcrystalline in oil, 400,000 A units per gram, tins, works, million units. .30 - —
b-Carotene, pure, crystalline, 1,600,000 A units to 1,670,000 per gram., ens. ... gram. .40 - —
in vegetable oil, 400,000 A units per gram, ens. gram. .096 - —
Carvol, bots lb. 4.50 - 8.00
Cascara sagrada bark, bulk lb. .30 .31
Casein, dom., acid precip standard, bgs., 10,000-lb. lots or more, shipt. point lb. .27 - .30
premium, bgs., 10,000-lb. lots or more, shipt. point lb. .35 - .40
imp., Argentine, acid-precip., grd., duty paid, c.l lb. .23½- .24
New Zealand, same basis lb. .25 - .26
Cashewnut shell, liquid, treated, dms., c.l., Newark, N. J. lb. .22 - —
ton lots, same basis lb. .23 - —
dm lots same basis lb. .25 - —
Cassia, Batavia, cuttings, bls lb. .15 - .15½
longstick, cracked, bls lb. .16½- .17
shortstick, cracked, bls lb. .16 - —
Saigon, broken, bls lb. No prices.
medium, reconditioned, bls lb. No prices.
thin, bls lb. No prices.
Castor beans, bgs., c. & f ....ton.110.00 Nom.
Oil (see Oil, castor).
Pomace, bgs., c.l., works ....ton.37.50 Nom.
Castoreum, nat., ens lb 5.00 -30.00
syn., ens lb. 9.00 —
Catechol, CP, cryst., fib. dms., works lb. 2.17½- —
resub., dms., works lb. 4.29½- —
Catnip leaves, Southern, bls .. lb. .75 - —
Celery seed, French, bgs., shipt lb. .36 - —
Indian, bgs. lb. .16 - —

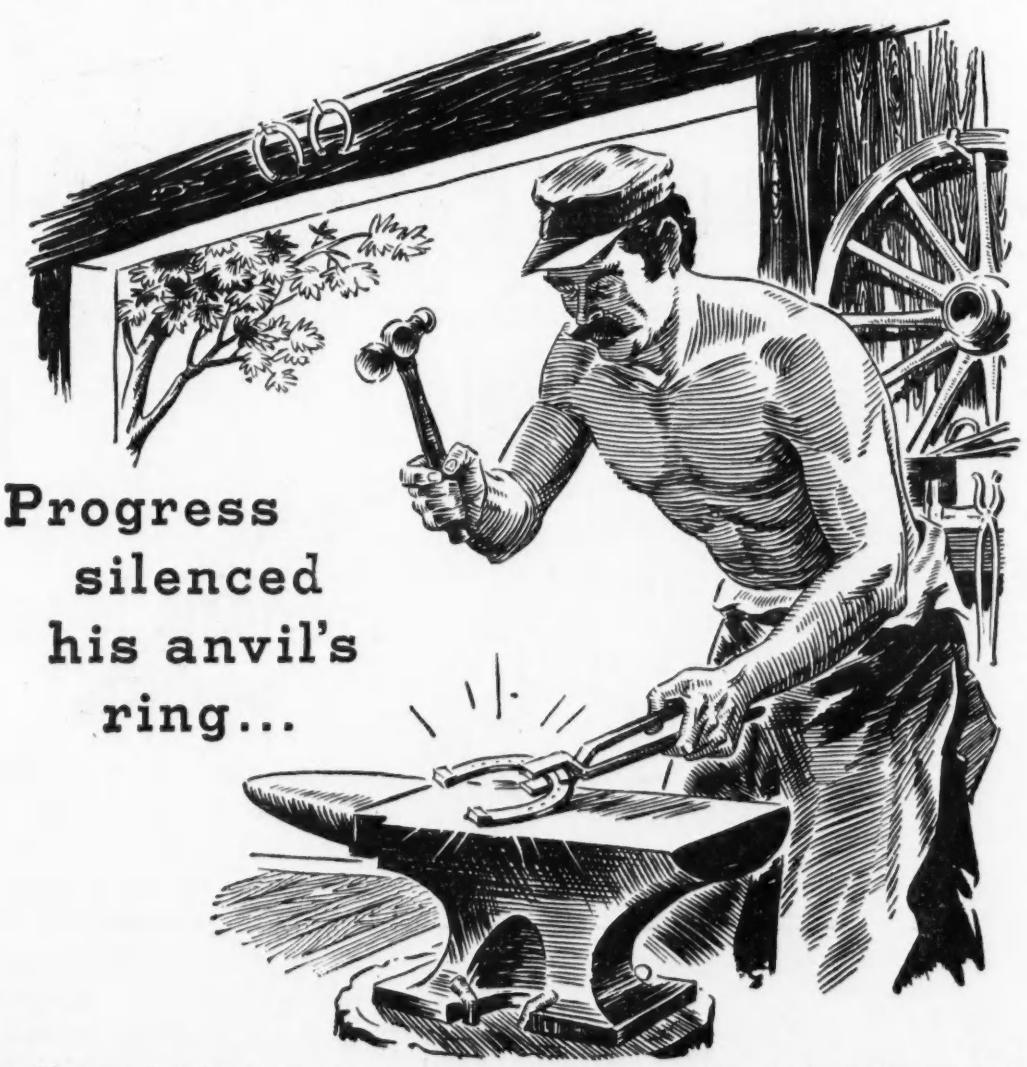
Cacao Butter—Charcoal, Pinewood

Cellulose scrap (see Pyroxylin scrap).
Acetate, flake, powd., ctns., bgs., 100 lb. lots or more, dlvd E lb. .35 .46
Acetate-butyrate, powd., 17% butyryl content, bgs., dlvd E. lb. .545 .555
27% butyryl content, bgs., dlvd. E lb. .595 .605
38% butyryl content, bgs., dlvd. E lb. .545 .555
50% butyryl content, bgs., dlvd E lb. .585 .595
half-second, bgs., dlvd. E. lb. .545 .555
Cerium hydrate, 74% CeO_2, fib. dms., 100-lb lots or more lb. 1.44 - —
77% CeO_2, fib. dms., 100-lb. lots or more lb. 1.74 - —
Oxalate, NF, bbls., bgs., works lb 1.32 - —
Oxide, optical grade, bgs., 50-lb. lots or more, dlvd lb. 1.85 - 1.98
smaller lots, dlvd lb. 2.03 2.23
Chalk (see Calcium carbonate).
Chamomile flowers, Hungarian style, cs lb. .85 - —
Roman, cs lb. 1.50 - —
Charcoal, activated, NF, fib dms., c.l., works lb. .25 - .32
5-ton lots, works lb. 20½- 32½
smaller lots works lb. .27 50
Bone (see Black bone).
Hardwood, briquets, bgs., c.l., works ton 77.00 88.00
gran., bgs., works ton 77.00 —
bulk, c.l., works ton.72.00 - —
Pinewood, gran., powd., bgs., c.l., works, South ton.55.00 - —
t.c.l., works, South ton.55.00 -65.00
lump bgs., c.l., works, South ton.51.50 —
t.c.l., works, South ton.54.50 -69.00
bulk, c.l., works, South ton.36.00 - —


m-Chloroaniline*
A water-white to light-amber liquid that tends to darken on storage. It is available in a stabilized form to retard color development.# The sum of the ortho and para isomers is under 2%.
m-Chloroaniline S Technical
SPECIFICATIONS:
Purity: 98.0% minimum
Freezing Point:— 11°C. minimum
Moisture Content: 0.5% maximum
Molecular Weight: 127.6
o-Chloroaniline*
A water-white solid which darkens on storage. It may contain up to 3% isomers, chiefly para.
SPECIFICATIONS:
Purity: 99.5% minimum, by nitrite absorption
o-Chloroaniline Content: 97% minimum
Moisture Content: 0.2%
p-Chloroaniline*
A water-white to light-amber solid that tends to darken on storage. It is available in a stabilized form to retard color development.# Both forms may contain from 0.5 to 1.0% each of ortho and meta isomers and traces of aniline. p-Chloroaniline is soluble in alcohol and acetone, very slightly soluble in water.
p-Chloroaniline S Technical
SPECIFICATIONS:
Purity: 97.5% minimum
Moisture Content: 0.15% maximum
2,5-Dichloroaniline*
A white to dull-red-brown solid. Soluble in organic solvents and dilute hydrochloric acid. Slightly soluble in water. It may contain up to 1.0% m-chloroaniline and traces of 2,5-dichloronitrobenzene as impurities.
SPECIFICATIONS:
Purity: 99.0% minimum, by nitrite absorption.
Passports to new products
Take a close look at the Du Pont chloroanilines shown. Perhaps one of them may be just what's needed in your development work—or possibly a combination of two or more may satisfy your requirements for an intermediate.
WRITE US TODAY on your company letterhead for more information about these products—four of a complete line of chloroanilines available from Du Pont. Address: E. I. du Pont de Nemours & Co. (Inc.), Organic Chemicals Dept., Chemicals Div., Wilmington 98, Del.
*Sold in technical grades
DU PONT
REG. U.S. PAT. OFF.
BETTER THINGS FOR BETTER LIVING ...THROUGH CHEMISTRY
ORGANIC CHEMICALS DEPARTMENT

Chestnut Extract—Cream of Tartar

Chestnut extract, liq., 25% tannin, bbls., c.l., works lb. .04¾- —
l.c.l., works lb. .0510- —
tanks, works lb. .04 • —
powd., 60% tannin, bgs., extra, c.l., works lb. .1032- —
l.c.l., works lb. .1102- —
Chloral, tech., 94% min., dms., c.l. works lb. .23 • —
l.c.l., works lb. .24 • —
tanks, works lb. .21 • —
Hydrate USP, 40-lb. jars, 1,000-lb. lots lb. 1.00 • —
500-lb. lots lb. 1.03 • —
100-lb. lots or less lb. 1.05 • —
Chloramine I NF, bbls., works lb. .75 • 1.00
Chlordan, agricultural, dms., c.l., frt alld lb. .65 • —
l.c.l. 5,000 to 10,000-lb. lots, frt alld lb. .66 • —
clarif., dms., c.l., frt. alld lb. .75 • —
l.c.l., 5,000 to 10,000-lb. lots, frt alld lb. .76 • —
Chlorinated paraffin 42% dms., c.l., frt. alld lb. .15½- —
l.c.l., same basis lb. .16½- —
70% dms., c.l., same basis lb. .18 • —
l.c.l., same basis lb. .19 • —
Rubber, 5, 10, 20 cps. ctns., c.l., works lb. .55 • —
l.c.l., works lb. .56 • —
125, 1,000 cps. ctns. c.l., works lb. .65 • —
l.c.l., works lb. .66 • —
Chlorine, liq., cyls., c.l., works, frt. equald lb. .09½- —
l.c.l., Metropolitan area lb. .11 • .12¼
tanks, single units, works, frt. equald 100 lbs. 2.93 • —
Chlorine, liq., multiple units, 5 cars, works, frt. equald 100 lbs. 3.80 • 3.83
3 cars, same basis 100 lbs. 3.80 • —
2 cars, same basis 100 lbs. 5.00 • —
1 car, same basis 100 lbs. 6.00 • —
4-Chloro-2-aminotoluene, fused, bbls. lb. 1.45 • —
m-Chloroaniline, dms., c.l., frt. equald lb. .75 • —
l.c.l., same basis lb. .80 • —
o-Chloroaniline, dms., c.l., works, frt. equald lb. .70 • —
l.c.l., same basis lb. .72 • —
p-Chloroaniline, dms., c.l., works, frt, equald lb. .75 • —
o-Chlorobenzaldehyde, dms., works. lb. 1.20 • —
p-Chlorobenzaldehyde, dms., works. lb. 1.33 • —
Chloroform, tech., dms., c.l., dlvd. E lb. .18 • —
l.c.l., same basis lb. .19 • —
tanks, same basis lb. .17 • —
USP, dms lb. .30 • —
2-Chloro-4-nitroaniline, paste, dlvd. E., 100% basis lb. .81 • —
powd., dlvd. E., 100% basis lb. .86 • —
4-Chloro-2-nitroaniline, powd., dlvd. E lb. .80 • —
o-Chlorophenol, dms., c.l., frt. equald. lb. .34½- —
l.c.l., same basis lb. .35½- —
p-Chlorophenol, dms., c.l., frt. equald. lb. .34½- —
l.c.l., same basis lb. .35½- —
Chlorophyll, oil soluble, not fixed, 4%, pails, tins, works lb. 4.25 • —
copper fixed, 6½% tins, pails, works lb. 4.25 • —
Chlorophyll, sodium-copper, aqueous soln., 4%, dms., pails, works lb. 3.75 • —
8%, pails, dms., works lb. 4.00 • 4.80
14%, dms., works lb. 8.90 • —
conc., dom., 50%, dms., works, 100% basis lb. 42.00 • —
75%, dms., works, 100% basis lb. 45.00 • —
90%-100%, dms., works, 100% basis lb. 45.00 • —
imp., 60%, tins, 100% basis, lb. 58.00 • —
75%, tins, 100% basis lb. 58.00 • —
90%, tins, 100% basis lb. 58.00 • —
Chloropicrin, coml., bots lb. 1.50 • —
cyls., 180 lbs. frt alld lb. .95 • —
100 lbs., same basis lb. .97 • —
25 lbs., same basis lb. 1.22 • —
Cholesterol, USP, fib. dms., 100-lb. lots lb. 6.85 • 9.00
Choline bitartrate, fib. dms., frt. adjusted lb. 1.25 • 1.50
Chloride, fib. dms., frt. adjusted. lb. 1.50 • 1.75
Dihydrogen citrate, fib. dms., frt. adjusted lb. 1.50 • 1.75
Chromium acetate, soln., 7½%, bbls., works lb. .08½- —
cbys. works lb. .10¼- —
Fluoride, bbls., works lb. .51 • .52
Green (see Green, chrome).
Oxide (see Green chromium oxide).
Trioxide NF bots lb. .82 • .89
Yellow (see Yellow chrome).
Cinchona bark, NF, red, broken, bgs. lb. .35 • .40
yellow, broken, bgs lb. .35 • .40
Cinchonidine, cryst., cns., 100-oz. lots. oz. .65 • —
Sulfate, cns., 100-oz. lots oz. .35 • —
Cinchonine, cryst., cns., 100-oz. lots. oz. .52 • .57
Sulfate, NF, cns., 100-oz. lots oz. .27½- .30½
Cinchophen, NF, heavy density, dms., frt. adjusted lb. 3.70 • 4.05
standard density, dms., same basis lb. 3.50 • 3.85
Cinchophen-sodium, dms., frt. adjusted lb. 4.50 • 4.85
Cinnamic alcohol (see Alcohol cinnamic).
Aldehyde, cns., dms lb. 1.00 • 1.30
Cinnamon, Ceylon, No. 2, afloat lb. .54 • —
"0000," bgs. lb. .76 • —
Citral, bots., cns lb. 5.65 • 5.90
Citronellal, bots., dms lb. 1.85 • 2.50
Citronellol, bots., dms lb. 4.40 • 5.00
Civet, artif., bots lb. 13.75 -15.00
nat., bots oz. 7.50 -15.00
Clay, ball, dom., airfloated, bgs., c.l., Tenn. ton. 19.50 • —
crushed, shed moisture, bulk, c.l., Tenn ton. 10.00 • —
purif., bgs., c.l. Tenn ton. 20.50 • —
imp., airfloated, bgs., c.l., Atl. port, long ton. 42.00 -45.00
lump, bulk, Atl. port, long ton. 27.00 -30.20
China, dom., dry-grd., airfloat, 99%, 325 mesh, bgs., c.l., Georgia, works ton. 10.00 • —
l.c.l., Georgia, works. ton. 15.50 • —
300 mesh, bgs., c.l., Georgia, works ton. 13.50 -14.50
l.c.l. ton. 35.00 -36.00
imp., white, lump, bulk, c.l., ex dock, Phila., Portland, Me. gross ton. 20.00 -35.00
powd., bgs., c.l., ex dock net ton. 50.00 —
l.c.l., ex whse net ton. 60.00 -65.00
Clove, Madagascar, bgs lb. .45 • —
Zanzibar, bls. lb. .45 • —
CMC, crude, 96%, low or medium vis., bgs., or fib. dms., 23,000 lbs., dlvd. E., 100% basis, lb. .37 • —
less than 23,000 lbs., dlvd. E., 100% basis lb. .41 • —
65%, bgs., or fib. dms., c.l., dlvd. E., 100% basis lb. .37 • —
l.c.l., dlvd. E., 100% basis. lb. .41 • —
purif., high vis. (see Gum Cellulose).
standard, low or medium vis., bgs., 23,000 lbs. or over, works, frt. alld lb. .55 • —
smaller lots, same basis lb. .57 • —
CMC prices W. of the Rockies are 2c. per lb. lower, and are on a works basis.
Coaltar, crude, resale for solns., dms., c.l., ex-whse gal. .255 • —
l.c.l., ex-whse gal. .275 • —
tanks, ex works gal. .155 • .159
refd., resale, dms., c.l., ex-whse. gal. .2650- .32
l.c.l., ex-whse gal. .2850- .34
tanks, ex-whse gal. .1650- .1760
Cobalt acetate, 23.7%, bbls., dlvd. lb. 1.30 • —
Carbonate, 46% powd., bgs., dlvd. lb. 2.15 • —
Chloride, 24.2% Co. kgs., dlvd. lb. 1.20 • —
Hydrate, 60-61% Co. bbls., dlvd. lb. 2.72 • —
Linoleate, fused, 8½% Co., dms. lb. .73¾- —
liq., 6% Co., dms lb. .61 • —
Metal, 97-99% kgs., ex whse lb. 2.60 • —
Naphthenate, liq., 6% Co., dms., dlvd lb. .48¼- —
Nitrate, 20.1% Co, bbls., dlvd lb. 1.00 • —
Oxide, black, 72½-73½% Co., kgs. lb. 1.96 • —
70-71% Co. kgs lb. 1.90 • —
Phosphate, powd., 32.1% Co., kgs., dlvd lb. 1.69 • —
Resinate, fused, 3% Co., dms lb. .29¾- —
Sulfate, cryst. 21% Co., dms., dlvd lb. .89 • —
monohydrated, 33% Co. dms. dlvd lb. 1.40 • —
Tallate, 6% Co., dms., dlvd lb. .43¾- —
Cocaine, USP, cns., 100-oz. lots oz. 17.80 • —
Hydrochloride, cns., 100-oz. lots. oz. 13.75 • —
Cocillana bark, bgs lb. .40 • .50
Cocoa butter, bgs. lb. .61 • .66
Codeine, NF, cns., 100-oz. lots oz. 13.25 • —
Hydrochloride, cns., 100-oz. lots oz. 11.75 • —
Phosphate, USP, cns., 100-oz. lots. oz. 10.25 • —
Sulfate, USP, cns., 100-oz. lots oz. 10.75 • —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls lb. .20 • .22
blue, bls lb. .20 • .22
Colchicine, USP, bots., cns. oz. 33.50 -40.00
Colchicum root, bls lb. .45 • .55
seed, bgs lb. .75 • 1.00
Collodion, USP, dms lb. .32½- —
flexible, USP, dms lb. .34 • —
Colocynth, pulp, bls lb. .25 • .30
Colombo root, bls lb. No prices.
Condurango bark, bales lb. .40 • .50
Copaiba balsam, cns., dms lb. .90 • 1.20
Copper acetate, bbls., c.l., works lb. .43 • —
l.c.l., works lb. .44 • —
Carbonate, 55%, bgs., works lb. .30 • .31¼
Chloride, anhyd., bbls., works lb. .43½- —
cryst., bbls., works lb. .29 • .29½
Cyanide tech., bbls., 20,000-lb. lots or more lb. .73 • —
1,000-lb. lots or more lb. .74 • —
smaller lots lb. .76 • —
Gluconate, cns., dms lb. 3.00 3.24
Hydrate, dms., frt. alld. E. Miss. lb. .45¼- .45¾
Metal, electrolytic, dlvd., Valley basis lb. .36 • —
Naphthenate, liq., 8% Cu., dms., frt. alld lb. .24 • —
Nitrate, tech., cryst., bbls., works. lb. .32¼- —
Oleate, solid, 9% Cu, dms., works lb. .45 • —
Oxide, black, bbls., 500-lb. lots or more, works lb. .47½- .49¼
red, 97%, USN Type I, bbls., lb. .53½- .68
90%, USN Type II, bbls., 500-lb. lots or more, works lb. .48½- .51½
Oxychloride, dms., works lb. .46 • .56½
Quinolinate, fib. dms lb. 4.25 • 4.50
Resinate, precip., dms., frt. alld lb. .31½- —
Sulfate, CP, gran., bbls., works. lb. .1915- —
cryst., 99%, bgs., c.l., works. 100 lbs. 12.25 • —
l.c.l., works 100 lbs. 12.75 -13.25
monohydrated, 35% dms., c.l., works 100 lbs. 19.75 • —
l.c.l., works 100 lbs. 20.50 • —
tribasic, dealers, bgs., c.l., works, frt. alld 100 lbs. 26.25 • —
l.c.l., works 100 lbs. 27.25 -28.25
Undecylenate, dms lb 2.90 3.00
Copperas (see Ferrous sulfate).
Copra, Atl. Gulf ports, c.i.f ton. 165.00 • —
Pacific ports, c.i.f ton. 160.00 • —
Coriander seed, Moroccan, bgs., afloat lb. No prices.
Roumanian, bgs. lb. .08 • —
Yugoslavian, bgs. lb. .08 • —
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs 7.31 • —
l.c.l. 100 lbs. 7.46 • —
Syrup, 42 dms., c.l. tanks 7.32 • —
l.c.l. 100 lbs 7.46 —
Corrosive sublimate (see Mercuric Chloride).
Cortisone acetate, NNR, bulk gram 3.50 3.55
Cottonseed meal, exp. 41%, bgs., Memphis ton. 60.00 -61.00
Coumarin, cryst., NF, dms lb 3.10 3.20
Cramp bark, NF, bls lb .85 .90
Cream of tartar (see Potassium bitartrate).



Progress silenced his anvil's ring...

The mighty smith once played an important part in our civilization, but new ideas, techniques and man's desire for progress have silenced his anvil's ring.

Overseas buyers, don't let this happen to you! Rid yourselves of antiquated buying methods — don't waste your precious time trying to locate the right source for each product.

Smart importers abroad have singled out one reliable and proven source for all their chemical requirements. **It is BROWNING, who offers the most unique buying facilities because they sell factory-fresh merchandise only — quote rockbottom prices consistently—render highly individualized service and — have the know-how of international trade. Simultaneously, BROWNING will supply EUROPEAN made Chemicals directly from their HAMBURG affiliate (West Germany) under equally favorable conditions.**

Be wise, consolidate all your chemical needs with BROWNING, whose prime objective is to do far more than necessary and to be always one step ahead of times.

BROWNING CHEMICAL CORP.
150 BROADWAY, NEW YORK 38, N.Y. • CABLE ADDRESS: BROCHEMO NEW YORK

Or for your requirements from Europe, write or cable directly to:
BROWNING & CO., G.m.b.H. Kattrepel 2 Hamburg 1, Germany • Cable Address: BROCHEMO HAMBURG

Creosote carbonate, NF, bots. cbys. lb. 3.08 - 3.26
Coaltar, crude, tanks, works, frt. adjusted gal. .22 —
soln., 80%, tanks, works gal. .2068- —
refd., dms., c.l., works gal. .40 - .42
l.c.l., same basis gal. .50 - .53
tanks, same basis gal. .30 - .33
Wood, beechwood, cbys., dms. lb. 1.60 - 1.65
hardwood, NF, bots., cbys lb. 1.30 - 1.35
pinewood, tanks, works lb. .427 - .438
Cresol, tech., 50% below 204°C., dry above 207°C. wide distillation range, non-ret. dms., c.l., frt equald. lb. .148 - —
l.c.l., same basis lb. .151 - —
tanks, same basis lb. .135 - —
USP, non-ret., dms., c.l., same basis lb. .158 - —
l.c.l., same basis lb. .161 - —
ret. dms., c.l., same basis lb. .140 - —
l.c.l., same basis lb. .143 - —
tanks, same basis lb. .145 - —
m-Cresol, 95-98%, dms., c.l., works. lb. .60 - —
l.c.l., works lb. .61 - —
m-p-Cresol, 5-95%, 3°C., dms., c.l., frt. equald. lb. .158 - —
l.c.l., same basis lb. .161 - —
tanks, same basis lb. .145 - —
2-97%, 2°C., dms., c.l., frt. equald. lb. .198 - —
l.c.l., same basis lb. .201 - —
tanks, same basis lb. .185 - —
o-Cresol, m.p. over 30°C., ret. dms., c.l., frt. equald lb. .173 - —
l.c.l., same basis lb. .176 - —
tanks, same basis lb. .16 - —
29°C., ret. dms. c.l. frt. equald. lb. .16 - —
l.c.l., same basis lb. .16½ - —
tanks, same basis lb. .15 - —
25-29°C., dms., c.l., frt. equald. lb. .153 - —
l.c.l., same basis lb. .156 - —
tanks, same basis lb. .14 - —
p-Cresol, 98%, dms., c.l., dlvd lb. .49 - —
l.c.l., dlvd lb. .51 - —
Methyl ether, cns lb. 1.90 - 2.50
Crotonaldehyde, 91-93%, dms., l.c.l., works lb. .24¼- .25
Cryolite, nat., indust., bgs., c.l., works 100 lbs. 13.00 - —
l.c.l., works 100 lbs. 14.25 - —
insecticide, dealers, bgs., c.l., dlvd 100 lbs. 16.75 - —
l.c.l., dlvd 100 lbs. 17.75 - —
Cube root, powd., 5% rotenone, bgs., c.l., t.l., works lb. .26 - .27
l.c.l., works lb. .27 - .27½
Cubeb berries, XX, NF, bgs. lb. .60 - .65
powd., cs lb. .75 - .80
Cumene, dms., c.l., works lb. .12 - —
l.c.l., works lb. .14 - —
tanks, works lb. .11 —
Cumin seed, Iranian, bgs. lb. .12½- —
Turkish, bgs. lb. .12½- —
Cutch extract, bone tannin, bgs., ex dock, duty extra lb. .08½- —
Cyanamide, fertilizer mixing grades, 21% N, gran., bgs., Niagara Falls, Ont., contract ton 55.00 - —
pulv., 21% N, bgs., works. unit-ton. 2.75 - —
indust. grade, bgs., c.l., works ton. 75.00 - —
l.c.l., bgs., works ton. 96.00 - —
6-16 mesh, dms., c.l., works. ton. 120 00 - —
l.c.l., dms., works ton. 140 00 - —
Cyclohexane, 99%, tech., dms., c.l., works gal. .70 - —
l.c.l., works gal. .72 - —
tanks, works gal. .55 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld., E lb. .28½- .37¼
l.c.l., works, same basis lb. .30 - .38¼
tanks, works, same basis lb. .27 .36¼
Cyclohexanone, tech., dms., c.l., works lb. .33½- —
l.c.l., works lb. .35 - —
tanks, works lb. .32 - —
Cyclohexylamine, dms., c.l., works. lb. .46½- —
l.c.l., works lb. .47½- —
tanks, works lb. .45 - —
Cyclopropane, CP, 2-lb. cyls., works. cyl. 48.00 - —
6 oz. cyls., works cyl. 12.00 - —
USP, hospitals, cyls., 40-gal. lots. gal. .38 - —
100-gal. lots gal. .37 - —
200-gal. lots gal. .36 - —

D

2-4-D, tech., dms., c.l., works, frt. equald lb. .41½- —
l.c.l., same basis lb. .46½- .48¼
Butyl ester, dms., c.l., works. lb. .43 - —
l.c.l., same basis lb. .48 - .50
Isopropyl ester, dms., c.l., works. lb. .43 - —
l.c.l., works lb. .48 - .50
Dandelion root, bls lb. .35 - .40
DDD, tech., flake, grd., fib. bgs., c.l., works lb. .43 - —
l.c.l., works lb. .46 - —
DDT powder, bgs., c.l., works, frt. equald lb. .27 - —
smaller lots, same basis lb. .29 - —
fib. dms., c.l., same basis lb. .28 - —
smaller lots, same basis lb. .30 - —
1-Decanol, tech., dms., c.l., dlvd. lb. .41 - —
l.c.l., dlvd. lb. .43 - —
tanks, dlvd. lb. .38½- —
Deertongue leaves, bls lb. .45 - —
Defluorinated phosphate, feed grade, 13% P, paper bgs., c.l., t.l., works. ton. 53.40 - —
14½% P, paper bgs., c.l., t.l., works. ton. 48.00 - —
17% P, paper bgs., c.l., t.l., works. ton. 56.00 - —
18% P, paper bgs., c.l., t.l., works. ton. 69.85 - —
Degras, common, bbls. lb. .10 - .12
neutral, less 2% f.f.a., bbls. lb. .23 - .24
over 2% f.f.a., bbls. lb. .22 - .23
d-Desoxyephedrine hydrochloride bots lb. 25.00 - —
dl, bots. lb. 6.50 - —
Dextrin, corn, gum, paper bgs., c.l. 100 lbs. 8.93 - —
l.c.l. 100 lbs. 9.10 - —
canary, paper bgs., c.l. 100 lbs. 8.69 - —
l.c.l. lb. 8.84 - —
dark, paper bgs., c.l. 100 lbs. 8.79 - —
l.c.l. 100 lbs. 8.94 - —
white, paper bgs., c.l. 100 lbs. 8.53 - —
l.c.l. 100 lbs. 8.68 - —
Corn dextrin in cotton bgs. 25c. per 100 lbs. higher.
Potato, bgs. lb. .10½- .11
Dextrose, USP, dms. lb. .17¾- —
Diacetone (see Alcohol diacetone).
Diacetyl, flavor grade, bots lb. 4.50 - 5.50
Di-sec-amyl phenol, dms., c.l., works. lb. .30¾- —
l.c.l., works lb. .32¼- —
tanks, works lb. .28¾- —
Di-tert-amyl phenol, dms., c.l., works. lb. .30¾- —
l.c.l., works lb. .32¼- —
tanks, works lb. .28¾- —
o-Dianisidine, fib. dms. lb. 2.00 - —
Dibenzyl sebacate, dms., c.l., works. lb. .89¾- .90
l.c.l., same basis lb. .90¼- .91
tanks, same basis lb. .88 - —
o-Dibromobenzene, bgs., 500-lb. lots lb. .55 - —
Dibutyl phthalate, dms., c.l., dlvd, E lb. .32 - —
l.c.l., same basis lb. .33 - —
tanks, same basis lb. .30 - —
Sebacate, dms., c.l., works lb. .68 - —
l.c.l., works lb. .68½- .69
tanks, works, dlvd lb. .66 - .66½
Tartrate, dms., works, frt. alld lb. .64 - .71
Dibutylamine, dms., c.l., dlvd lb. .55 - —
l.c.l., same basis lb. .56 - —
tanks, same basis lb. .53 - —
Di-tert-butyl-p-cresol, dms., c.l., works. lb. .91 - —
l.c.l., works lb. .95 - —
Dicapryl phthalate, dms., c.l., dlvd., works. lb. .30½- .31½
l.c.l., same basis lb. .31½- .32½
tanks, same basis lb. .29½- —
Sebacate, dms., c.l., works lb. .63 - —
l.c.l., works lb. .63½- .64
tanks, works lb. .61 - —
2,5-Dichloroaniline, dms., works lb. .83 - —
o-Dichlorobenzene, dms., c.l., frt. alld, E lb. .12¼- —
l.c.l., same basis lb. .13¼- —
tanks, same basis lb. .10¾- —
p-Dichlorobenzene, dms., c.l., frt. alld, E lb. .14½- —
l.c.l., same basis lb. .17 - —
Dichlorodiphenyltrichlorosthane (see DDT).
Dichloropentanes, dist., dms., c.l., works lb. .05 - —
l.c.l., works lb. .05¾- —
tanks, works lb. .04¼- —
Dicyclohexylamine, dms., c.l., works. lb. .51 —
l.c.l., works lb. .51¾- —
tanks, works lb. .49¾- —
Dicyclohexyl phthalate, fib. dms., c.l., frt. alld., works lb. .58¼- .59
l.c.l., same basis lb. .59¼- .60

Creosote Carbonate—Dihydrostreptomycin Sulfate

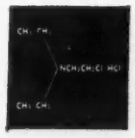
Dieldrin, dms., frt. alld lb 1.80 - —
l.c.l., frt. alld lb. 1.85 - —
Diethanolamine, dms., c.l., dlvd. E. lb. .26½- —
l.c.l., same basis lb. .27½- —
tanks, same basis lb. .24½- —
Diethyl carbonate, dms., c.l., frt. alld lb. .47 - —
l.c.l., same basis lb. .48 - —
tanks same basis lb. .45 - —
Ethanolamines, dms., c.l., dlvd. lb. .69 - —
l.c.l., dlvd lb. .70 - —
tanks, dlvd lb. .67 - —
Oxalate, dms., c.l., frt. alld lb. .42 - —
l.c.l., same basis lb. .43 - .45
tanks, same basis lb. .40 - —
Phthalate, dms., c.l., dlvd lb. .27 - —
l.c.l. dlvd. lb. .28 - —
tanks, dlvd. lb. .25 - —
Sulfate, dms., c.l., works lb. .18¾- —
l.c.l. works lb. .19¼ - —
tanks works lb. .17 - —
Diethylamine, dms., c.l., dlvd. E lb. .50½- —
l.c.l., same basis lb. .51½- —
tanks, same basis lb. .48½- —
N,N-Diethylaniline, dms., c.l., frt. alld lb. .51 - —
l.c.l., same basis lb. .52 - —
tanks, same basis lb. .50 —
Di-2-ethylhexyl adipate (see Dioctyl adipate).
Phthalate (see Dioctyl phthalate).
Diethylene glycol, dms., c.l., dlvd, E. lb. .17¼- —
l.c.l., same basis lb. .18¼- —
tanks, same basis lb. .15¼- —
Boriborate, dms., l.c.l. lb. .31 - —
Diethyl ether, dms., works lb. .46½- —
l.c.l., works lb. .47 - —
Diethylene glycol monobutyl ether, dms., c.l. lb. .26¾- —
l.c.l., dlvd. lb. .29¾- —
tanks, dlvd lb. .27 - —
Acetate, dms., c.l., works. lb. .30 - —
l.c.l. works lb. .30½- —
tanks, dlvd. E lb. .23¼- —
Monoethyl ether, dms., c.l., dlvd. lb. .22 - —
l.c.l., dlvd lb. .23 - —
tanks, dlvd lb. .20 - —
Acetate, dms., c.l., works lb. .26¾- —
l.c.l. works lb. .27¼- —
tanks, dlvd. E lb. .25¼- —
Monomethyl ether, dms., c.l., works lb. .20½- —
l.c.l., works lb. .21½- —
tanks, works lb. .18½- —
Diethylenetriamine, dms., c.l., dlvd, E lb. .43 - —
l.c.l. same basis lb. .44 - —
tanks, same basis lb. .41½- —
Diethylstilbestrol, USP, bots., 10-kilo lots kilo. 100.00 - —
1-kilo lot kilo. 110.00 - —
Digitalis leaves, USP, dom., dms., lb. .90 - 1.10
Digitoxin, USP, bots gram. 5.00 - 5.50
Diglycol laurate, dms lb. .35 - .38
Oleate, dms lb. .31 - —
Stearate, dms lb. .26 .27
Dihexyl sebacate, dms., c.l., works lb. .64 —
l.c.l., works lb. .64½- .65
tanks, works lb. .62 —
Dihydrazine sulfate, dms., works. lb. 1.10 - 1.25
Dihydrostreptomycin hydrochloride, bulk gram. .09 - .10
Sulfate, bulk gram. .09 - .10

specially prepared

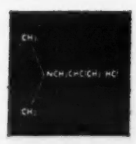
INDIVIDUALIZED INTERMEDIATES

DIALKYL AMINO ALKYL CHLORIDES provide a versatile group of intermediates for pharmaceutical synthesis. Continuously produced by Michigan Chemical Corporation for many years, individual members of this intermediates family provide manufacturers with a convenient method for introducing the dialkyl amino alkyl radical into organic nuclei to produce substituted amines, esters, and ethers. All are available in commercial quantities. Write for samples, technical data, and prices.

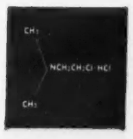
for pharmaceutical synthesis



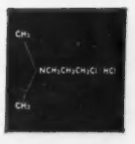
beta-Diethylaminoethyl Chloride Hydrochloride. (DEC). $(CH_3CH_2)_2$ NCH_2CH_2Cl. HCl. A granular solid. Specially suited for use as an intermediate in organic chemical manufacture, including the production of antispasmodic agents and other pharmaceuticals.



beta-Dimethylaminoisopropyl Chloride Hydrochloride. $(CH_3)_2$ $NCH_2CHClCH_3$. HCl. (DMIC). An organic intermediate similar in appearance and properties to DEC and DMC. Specially prepared for manufacture of analgesics and other pharmaceuticals. Other potential uses in organic synthesis.



beta-Dimethylaminoethyl Chloride Hydrochloride. (DMC). $(CH_3)_2$ NCH_2CH_2Cl. HCl. A granular solid. Specially prepared for use in manufacture of antihistaminics and other pharmaceuticals. Other potential uses in organic synthesis. Relatively non-toxic in hydrochloride form.



gamma-Dimethylaminopropyl Chloride Hydrochloride. $(CH_3)_2$ $NCH_2CH_2CH_2Cl$. HCl. (DMPC). A white powder of singular purity. A versatile intermediate for pharmaceutical and organic syntheses, available exclusively from Michigan Chemical.

Other widely used intermediates supplied by Michigan Chemical Corporation include Hydrobromic Acid, Methyl Bromide, Ethyl Bromide, Monobromobenzene, Trimethylene Chlorobromide, Phosphorous Tribromide and Cyclopentyl Bromide. Write for booklet "Individualized Intermediates."

MC* ©

MICHIGAN CHEMICAL CORPORATION

*Trademark

504 Bankson Street, Saint Louis, Michigan

C-55-1

EASTERN SALES OFFICE: 230 Park Avenue, New York 17, New York

BASIC MANUFACTURER OF INDUSTRIAL, PHARMACEUTICAL AND AGRICULTURAL CHEMICALS

2,2-Dihydroxy-5,5'-dichloro-diphenylmethane—Dyes, Coaltar, For Stains

2,2-Dihydroxy-5,5'-dichloro-diphenylmethane, pure, dms	lb.	2.80	3.00
tech. dms	lb.	1.04	1.14
Di-isobutyl ketone, dms., c.l., dlvd.	lb.	.15½	—
l.c.l. dlvd	lb.	.16½	—
tanks, same basis	lb	.13½	—
Phthalate, dms., c.l., dlvd. E	lb.	.31	—
l.c.l. same basis	lb.	.32	—
tanks, same basis	lb.	.29	—
Di-isobutylene, dms., c.l., dlvd. E	lb.	.10	—
l.c.l., dlvd. E	lb.	.11	—
tanks, dlvd E	lb.	.08	—
Di-iso-octyl phthalate, dms., c.l., dlvd	lb.	.32½	—
l.c.l. same basis	lb.	.33½	—
tanks, same basis	lb.	.29½	—
Sebacate, dms., c.l., works	lb.	.63	—
l.c.l., works	lb.	.63½	.64
tanks, works	lb.	.61	—
Di-isopropanolamine, dms., c.l., dlvd.	lb.	.22¾	—
l.c.l., same basis	lb.	.23¾	—
tanks, same basis	lb.	.20¾	—
Di-isopropylamine, dms., c.l., dlvd. E. of Rockies	lb.	.50	—
l.c.l. same basis	lb.	.51	—
tanks, same basis	lb	48	—
Dillseed, dewhiskered, bgs	lb.	.10½	—
nat., bgs.	lb.	.03½	—
Dimethyl anthrenilate, cns.	lb.	5.25	5.75
Chloroacetal, dms., c.l., works	lb.	45	—
l.c.l., works	lb	.50	—
tanks, works	lb	40	—
Dimethyl ethanolamines, anhyd., dms., c.l., dlvd	lb.	1.43	—
l.c.l. dlvd	lb	1.45	—
tanks, dlvd	lb.	1.40	—
Dimethyl ethanolamines anhyd., 70%, dms., c.l., dlvd., 100% basis	lb.	1.02	—
l.c.l., same basis	lb.	1.03	—
tanks, dlvd., 100% basis	lb.	1.00	—
Hydroquinone, dms.	lb.	1.70	2.75
Phthalate, dms., c.l., works	lb.	.29½	—
l.c.l., works	lb.	.30½	—
tanks, dlvd.	lb.	.27½	—
Sebacate, dms., c.l., works	lb.	1.27	—
l.c.l., works	lb.	1.28	—
tanks, works	lb.	1.25	—
Sulfate, 55-gal., ret. dms., c.l. works	lb.	.15	—
l.c.l. works	lb	.16	—
10-gal. ret. dms., l.c.l., works.	lb.	.16½	—
Dimethylamine, 25% soln., dms., c.l., frt. equald	lb.	.42	—
l.c.l., frt. equald	lb.	.42½	—
tanks, frt. equald	lb.	.33	—
40% soln., dms., c.l., frt. equald	lb.	.39	—
l.c.l., frt. equald	lb.	.39½	—
tanks, frt. equald	lb.	.33	—
N,N-Dimethylaniline, dms., c.l., frt. alld	lb.	.29½	—
l.c.l. frt. alld	lb.	.30½	—
tanks, frt. alld	lb.	.28½	—
N,N-Dimethylformamide dms. works.	lb.	.34	.39
tanks works	lb	.33	—
2,4-Dinitroaniline, dms., frt equald	lb	.57	—
m-Dinitrobenzene, 85°C., dms	lb.	.22	—
89°C., dms.	lb.	.24	—
2,4-Dinitrochlorobenzene dms., c.l., frt. alld. E	lb.	.15¼	—
l.c.l. frt. alld E	lb.	.15¾	—
tanks, frt. alld., E	lb.	.15	—
2,4-Dinitrophenol, bbls.	lb.	.37	—
2,4-Dinitrotoluene, oily, dms	lb.	.10	—
refd., 63 C., dms	lb.	.21	—
Dioctyl adipate, dms., c.l., works.	lb.	.44½	—
l.c.l. works	lb.	.45½	—
tanks, works	lb.	.42½	—
Phthalate, dms., c.l., frt. alld	lb.	.32½	—
l.c.l., frt. alld	lb.	.33½	—
tanks, frt. alld	lb.	.30½	—
Sebacate, dms., c.l., works,	lb.	.63	—
l.c.l. works	lb.	.63½	.64
tanks, works, dlvd	lb.	.61	.61½
Di-o-tolyguanidine, dms., ton lots, dlvd	lb.	.60	—
smaller lots, dlvd	lb.	.61	—
1,4-Dioxane, dms., c.l., works	lb.	.23¾	—
l.c.l. ame basis	lb	.29¼	—
tanks same basis	lb.	27	—
Dip oil (see Tar acid oil)			
Dipentaerythritol, bgs., l.c.l. works		.35	—
Dipentene, dest-dist., dms., c.l., works	gal.	.405	—
l.c.l., works	gal.	.455	—
ex-whse	gal.	.57	—
steam-dist., dms. c.l. works South.	gal.	.64	—
dlvd. N. Y	gal.	.62	—
tanks, works, South	gal.	.50	—
Diphenyl, bbls., c.l., works	lb.	.15	—
l.c.l. works	lb.	.16	—
Diphenyl in bags l.c.l. lower.			
Oxide, perfume grade, cns	lb.	.54	.61
Phthalate, dms., c.l. works	lb.	.51¾	—
l.c.l. works	lb.	.53¾	—
Diphenylguanidine, bgs., dms., ton lots	lb.	.50	—
smaller lots	lb.	.51	.52
Diphenylhydantoin-sodium USP, dms	lb	5.30	5.60
Dipropylene glycol, dms., c.l., frt. alld	lb.	.17¼	—
l.c.l., same basis	lb.	.18¼	—
tanks, same basis	lb.	.15¼	—
Monomethyl ether, dms., c.l., dlvd. E	lb.	.20	—
l.c.l., same basis	lb.	.21	—
tanks, same basis	lb.	.18½	—
Divi-divi, 45% tannin, bgs., bls., c.i. U.S. ports, exdock	ton	70.00	72.00
Divinylbenzene, 20-25%, dms., c.l., works	lb.	.20	—
l.c.l., works	lb.	.21	—
tanks, works	lb.	.19	—
40-50%, dms., c.l., works, 100% basis	lb	1.00	—
l.c.l. works, 100% basis	lb.	1.15	—
Dodecylbenzene, dms., c.l., frt. equald	lb.	.14	—
l.c.l., same basis	lb.	.15	—
tanks, same basis	lb.	.12	—

Dyes, coaltar, certified colors for food, drugs and cosmetics, 5-lb and 1-lb lots, dlvd:—

Blue, FD & C, No. 1, cns	lb.	17.00	17.60
No. 2, cns	lb.	17.00	17.60
Green, FD & C, No. 1, cns	lb.	17.00	17.60
No. 2, cns	lb.	22.00	22.85
No. 3, cns	lb.	33.25	35.90
Orange, FD & C, No. 1, cns	lb	3.65	3.75
No. 2, cns	lb	4.65	4.75
Red, FD & C, No. 1, cns	lb	7.35	7.85
No. 2, cns	lb	4.00	4.10
No. 3, cns	lb.	22.20	22.85
No. 4, cns	lb	7.20	7.50
No. 22, cns	lb	5.30	5.40
Violet, FD & C, No. 1, cns	lb.	17.00	17.60
Yellow, FD & C, No. 1, cns	lb.	10.50	11.05
No. 3, cns	lb	3.50	3.40
No. 4, cns	lb	3.30	3.40
No. 5, cns	lb	4.00	4.10
No. 6, cns	lb	4.00	4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, dlvd:—

Black, D&C, No. 1, cns	lb.	10.95	—
Brown, D&C, No. 1, cns	lb.	16.10	—
Green, D&C, No. 5, cns	lb.	16.10	—
No. 6, cns	lb.	16.10	—
No. 7, cns	lb.	14.80	—
Orange, D&C, No. 3, cns	lb.	10.95	—
No. 4, cns	lb.	20.05	—
No. 5, cns	lb	5.70	—
No. 10, cns	lb.	20.70	—
Red, D&C, No. 8, cns	lb.	2.85	—
No. 9, cns	lb.	2.85	—
No. 10, cns	lb.	2.30	—
No. 11, cns	lb.	1.85	—
No. 12, cns	lb.	2.65	—
No. 17, cns	lb.	10.95	—
No. 13, cns	lb.	24.00	—
No. 19, cns	lb.	15.45	—
No. 21, cns	lb.	3.60	—
No. 22, cns	lb.	10.95	—
No. 28, cns	lb.	24.65	—
No. 33, cns	lb.	17.45	—
Violet, D&C, No. 2, cns	lb.	16.10	—
Yellow, D&C, No. 7, cns	lb.	10.95	—
No. 10, cns	lb.	13.50	—
No. 11, cns	lb.	13.50	—

Dyes, coaltar, certified, colors for drugs and cosmetics, external use, 1-lb. lots, works, 25-50 lb. lots, dlvd:—

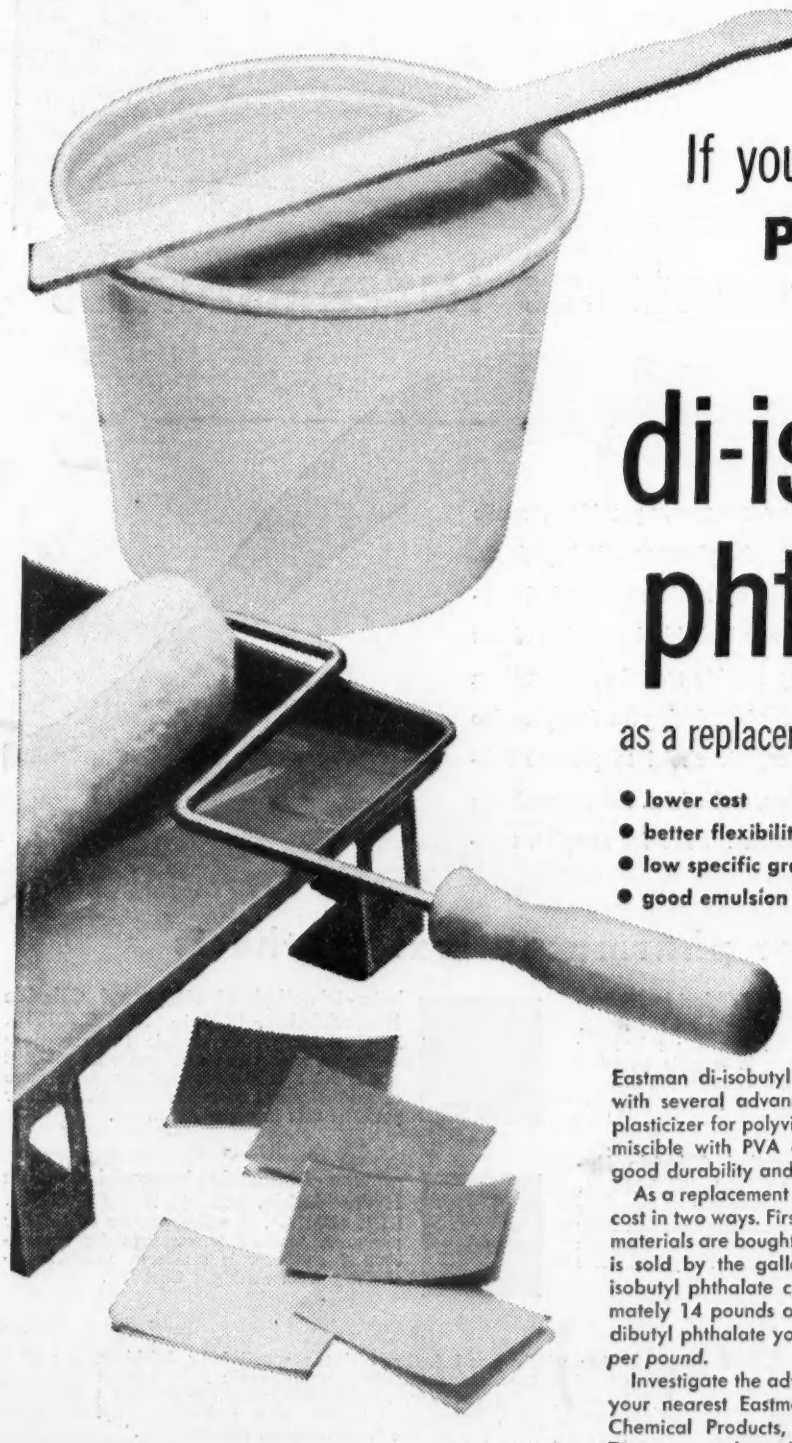
Blue, Ext., D&C, No. 1, cns	lb.	16.10	—
Green, Ext., D&C, No. 1, cns	lb.	16.10	—
Red, Ext., D&C, No. 1, cns	lb.	13.50	—
Yellow, Ext., D&C, No. 1, cns	lb.	10.95	—

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd. No.

20 Chrysoidine Y, dustless	lb.	.81	—
27 Fast light orange 2G	lb.	.99	—
31 Phloxine 2G	lb.	.81	—
36 Yellow 2G	lb.	.91	—
40 Orange R extra, conc	lb.	1.17	—
57 Fuchsine 6B	lb.	1.19	—
79 Scarlet 2R	lb.	.89	—
151 Orange AD	lb.	.61	—
161 Orange RR	lb.	.73	—
176 Fast red A	lb.	1.07	—
179 Rubine XX, conc	lb.	1.14	—
180 Blue F4B	lb.	1.01	—
185 Brilliant scarlet 3RN, conc.	lb.	.93	—
202 Chrome blue black R, conc.	lb.	.83	—
203 Chrome black T	lb.	.86	—
208 Fast blue SR	lb.	1.00	—
216 Chrome red B	lb.	.84	—
234 Brown V	lb.	.98	—
246 Blue black, extra, conc	lb.	1.05	—
275 Milling red 3R, conc	lb.	2.03	—
289 Navy blue 3R, conc	lb.	1.31	—
299 Black F, conc	lb.	1.69	—
304 Neutral black 2B, conc.	lb.	2.21	—
326 Fast scarlet 4BNC	lb.	1.64	—
332 Bismark brown RX, conc.	lb.	.95	—
365 Brilliant yellow, conc	lb.	2.83	—
382 Scarlet B	lb.	2.00	—
401 Diazo black BHD	lb.	.72	—
406 Blue 2B, extra conc	lb.	1.18	—
419 Red FC, conc	lb.	1.12	—
420 Brown M	lb.	1.08	—
448 Red 4BX, conc	lb.	1.30	—
518 Diamine sky blue FF, extra, conc	lb.	1.50	—
561 Brown B	lb.	2.23	—
581 Black EB, 200%	lb.	1.03	—
593 Green BY, conc	lb.	.79	—
596 Yellow Brown K, extra	lb.	.98	—
620 Yellow 2G	lb.	1.79	—
640 Yellow XX	lb.	1.61	—
655 Yellow OX	lb.	2.04	—
657 Green V	lb.	2.10	—
662 Brilliant green G	lb.	2.79	—
667 Brilliant milling green 6B, conc	lb.	3.68	—
671 Blue EG	lb.	1.70	—
681 Crystal violet powder	lb.	2.15	—
698 Violet 4BXN	lb.	1.74	—
720 Brilliant blue BBG	lb.	1.88	—
729 Blue B, conc	lb.	2.79	—
749 Red BX	lb.	4.33	—
814 Yellow NN, conc	lb.	3.11	—
841 Safranine GF, extra, conc.	lb.	3.17	—
865 Nigrosine WSJ	lb.	.75	—
922 Blue GXX	lb.	1.71	—
978 Black GXCF, conc	lb.	.32	—
1034 Alizarine red SC	lb.	2.59	—
1054 Alizarine blue SAPX	lb.	2.91	—
1078 Alizarine green CG, extra.	lb.	2.72	—
1085 Alizarine blue, black, B	lb.	2.33	—
1096 Golden orange GFD, single paste	lb.	1.99	—
1099 Dark blue BO, single paste.	lb.	1.75	—
1101 Jade green N, double paste.	lb.	1.98	—
1106 Blue RS, double paste	lb.	3.26	—
1217 Orange RD, single paste	lb.	1.65	—
1113 Blue BLFD, double paste	lb.	2.48	—
1150 Olive R, single paste	lb.	1.10	—
1151 Brown R, single paste	lb.	1.76	—
1171 Indigo synthetic, 20% paste	lb.	.31	—
p-4 Brown PG	lb.	2.30	—
p-14 Brown EB	lb.	1.66	—
p-24 Gray L	lb.	1.60	—
p-80 Diazo brilliant scarlet ROAD	lb.	2.79	—
p-202 Diazo black VJ, conc	lb.	1.91	—
p-244 Brilliant scarlet BN	lb.	1.31	—
p-313 Naphthol SWF	lb.	2.42	—

Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works

Black blue No. 550	lb.	.81	—
Jet No. 551	lb.	.39	—
Brown R, conc	lb.	1.72	—
Orange R, brilliant	lb.	.90	—
Red 4B, conc	lb.	1.37	—
Yellow C	lb.	1.18	—
FN, conc	lb.	1.22	—



If you're formulating **PVA** paints consider

di-isobutyl phthalate

as a replacement for dibutyl phthalate

- lower cost
- better flexibility at low temperatures
- low specific gravity
- good emulsion stability

Eastman di-isobutyl phthalate is a clear, colorless liquid with several advantages over di-n-butyl phthalate as a plasticizer for polyvinyl acetate emulsion paints. It is easily miscible with PVA emulsions, producing films that have good durability and flexibility at low temperatures.

As a replacement for dibutyl phthalate, it cuts plasticizer cost in two ways. First, *it weighs less per gallon.* Since paint materials are bought by the pound, while the finished paint is sold by the gallon, this lower specific gravity of di-isobutyl phthalate can mean a quick savings of approximately 14 pounds of plasticizer for every 100 gallons of dibutyl phthalate you replace. Second, *it has a lower cost per pound.*

Investigate the advantages of di-isobutyl phthalate. Call your nearest Eastman sales office or write to Eastman Chemical Products, Inc., Chemicals Division, Kingsport, Tennessee to learn how to lower your costs by using this economical Eastman plasticizer.

Eastman

CHEMICAL PRODUCTS, INC.

KINGSPORT, TENNESSEE

A subsidiary of EASTMAN KODAK COMPANY

SALES OFFICES: Eastman Chemical Products, Inc., Kingsport, Tennessee; New York—260 Madison Avenue; Framingham, Mass.—65 Concord St.; Cincinnati—Carew Tower; Cleveland—Terminal Tower Bldg.; Chicago—360 N. Michigan Ave.; St. Louis—Continental Bldg.; Houston—412 Main St. **West Coast: Wilson Meyer Co.;** San Francisco—333 Montgomery St.; Los Angeles—4800 District Blvd.; Portland—520 S. W. Sixth Ave.; Salt Lake City—73 S. Main St.; Seattle—821 Second Ave.

PERIODIC CLASSIFICATION OF THE ELEMENTS
PERIODS
CALL ON Mallinckrodt FOR COMPOUNDS OF THE CIRCLED ELEMENTS
Purchase Order No. P
Purchase Order No. P

The most elementary consideration in any process is *what you start with.* Your best engineered process and your finest equipment will not produce satisfactory products unless the starting materials—especially chemicals—are exactly right. And in the end, using the *right* chemical often saves money even at slightly higher first cost. More than 200 process industries have come to depend upon Mallinckrodt for *their* chemicals because they know Mallinckrodt can supply chemical needs promptly and in quantity. *Mallinckrodt's flexible production facilities are geared to the precision manufacture of chemicals from a few tons to carload lots.*

Write for our brochure which lists and describes some of the many Mallinckrodt chemicals and their uses.

Serving the Process Industries since 1867 Mallinckrodt®

Manufacturers of chemicals for industrial, medicinal, photographic and analytical uses

Mallinckrodt Chemical Works

MALLINCKRODT STREET, ST. LOUIS 7, MO. 72 GOLD STREET, NEW YORK 8, N. Y.
CHICAGO • CINCINNATI • CLEVELAND
LOS ANGELES • PHILADELPHIA • SAN FRANCISCO • MONTREAL • TORONTO

Dyes, Coaltar, for Stains—Fringetree Bark

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms., sellers' works:—
- Auramine O ... lb. 1.85 • —
- Black, basic blue ... lb. 1.21 • —
- Jet ... lb. 1.21 • —
- Blue, methylene, 2B, conc ... lb. 1.71 • —
- Brown Bismarck R, conc ... lb. .86 • —
- Chrysoidine, R, extra ... lb. .60 • —
- Y, extra ... lb. .64 • —
- Fuchsine, conc ... lb. 3.08 • —
- Green, malachite, conc ... lb. 2.10 • —
- Rhodamine, B ... lb. 4.33 • —
- Safranine, Y, conc ... lb. 2.90 • —
- Violet, methyl, B ... lb. 1.10 • —

Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sellers' works:—
- Azo rubine R, extra, conc ... lb. 1.04 • —
- Black, acid blue, B, extra ... lb. .86 • —
- Fast light, 3 G, extra ... lb. 2.04 • —
- Methanil, conc ... lb. .91 • —
- Orange acid, Y, conc ... lb. .47 • —
- Scarlet croceine, MOO ... lb. 1.45 • —
- Yellow, azo, conc ... lb. .90 • —

Oil-soluble, spirit-soluble, water-soluble in kegs, 3c. higher; tins, 10c. higher.

E

- Echinacea root, bls ... lb 1.10 —
- Egg albumin (see Albumin).
- Yolk, dried, dom., bbls ... lb. 1.10 • 1.12
- tanners bbls ... lb .06 .06½
- Elm bark, grinding, bls ... lb. .30 .32
- powd., bbls., bxs ... lb. .45 —
- select, bundles ... lb. .75 —
- Emetine hydrochloride, USP, bots ... oz.32.95 •35.00
- Endrin, tech., dms., dlvd., 100% basis ... lb. 3.75 • —
- Ephedrine, syn., USP, anhyd., bots., 100-oz. lots ... oz. .98 • 1.00
- hydrous, bots., 100-oz. lots ... oz. .92 • —
- Hydrochloride, tins, 100-oz. lots, oz. .75 • —
- Sulfate, cryst., tins, 100-oz. lots, oz. .72 • —
- powd., tins, 100-oz. lots ... oz. .73 • —
- Epichlorohydrin, dms., c.l., dlvd ... lb. .35 • —
- l.c.l., dlvd ... lb. .36 • —
- tanks, dlvd ... lb. .33 • —
- Epinephrine, syn., USP, bots., 100-gram lots gram. .45 • .55
- Epsom salt (see Magnesium sulfate).
- Ergosterol, unirradiated, cryst ... kilo.150.00 • —
- Ergot, NF, dms., tin-lined ... lb. 3.00 • —
- Eserine salicylate, bots ... oz.35.75 • —
- Sulfate, bots ... oz.39.50 • —
- Ether (see specific product).
- Ethyl acetate, nat. ferment., 85-88%, dms., c.l., frt. alld ... lb. .13 • —
- l.c.l., frt. alld ... lb. .14 • —
- tanks, frt. alld ... lb. .11 • —
- 85-98%, dms., c.l., frt. alld, lb. .13¼ • —
- l.c.l., frt. alld ... lb. .14¼ • —
- tanks, frt. alld ... lb. .11¼ • —
- 99%, dms., c.l., frt. alld ... lb. .13½ • —
- l.c.l., frt. alld ... lb. .14½ • —
- tanks, frt. alld ... lb. .11½ • —
- syn., 85-88%, dms., c.l., dlvd ... lb. .13 • —
- l.c.l., dlvd ... lb. .14 • —
- tanks, dlvd ... lb. .11 • —
- Ethyl acetate, syn., 95-98%, dms., c.l., dlvd ... lb. .13¼ • —
- l.c.l., dlvd ... lb. .14¼ • —
- tanks, dlvd ... lb. .11¼ • —
- 99%, dms., c.l., dlvd ... lb. .13½ • —
- l.c.l., dlvd ... lb. .14½ • —
- tanks, dlvd ... lb. .11½ • —
- Acetoacetate, dms., c.l., dlvd, lb. .58 • —
- l.c.l., dlvd ... lb. .59 • —
- tanks, dlvd ... lb. .56 • —
- Acrylate, dms., c.l., t.l., dlvd ... lb. .41½ • —
- t.t.l., dlvd ... lb. .41½ • —
- tanks, dlvd ... lb. .38¾ • —
- Aminobenzoate, USP (see Benzocaine).
- Bromide, tech., 98%, dms., c.l., frt. alld. E ... lb. .41 • —
- l.c.l., frt. alld E ... lb. .43 • —
- Butyl ketone, dms., c.l., works ... lb. .35½ • —
- l.c.l., works ... lb. .36 • —
- tanks, works ... lb. .34 • —
- Butyrate, works ... lb. .80 • 1.02
- Carbamate (see Urethane).
- Cellulose, vis. 7 cps., bgs., 5,000-lb. lots or more, works ... lb. .70 • —
- smaller lots, works ... lb. .72 • .80
- vis., 10, 20, 50, 100, 150 cps., ogs., 2,000-lb. lots or more, works ... lb. .65 • .70
- smaller lots, works ... lb .67 • .81
- Chloride, tech., cyl., works ... lb. .20 • .22
- dms., works ... lb. .18 • .20
- tanks, works ... lb. .10 • —
- Cinnamate, cns ... lb. 2.71 • 3.45
- Ethanolamines, mixed, dms., c.l., frt. alld, E, Miss ... lb. .42½ • —
- l.c.l., same basis ... lb. .43½ • —
- tanks, same basis ... lb. .40½ • —
- indust., dms., c.l., dlvd, E ... lb. .12 • —
- l.c.l., dlvd, E ... lb. .13 • —
- tanks, dlvd, E ... lb. .10 • —
- Ethyl ether, absolute, ACS, dms ... lb. .27 • —
- anesthesia, USP, hospitals, 1-lb. cns ... lb. .89 • —
- ½-lb. cns ... lb. .37 • —
- ¼-lb. cns ... lb. 1.05 • —
- indust., c.l., dlvd E ... lb. .12 • —
- l.c.l., dlvd, E ... lb. .13 • —
- tanks, dlvd, E ... lb. .10 • —
- Gallate, dms., 100 to 2,000-lb. lots, lb. 3.90 • 4.40
- Iodide, cbys., works ... lb. 3.30 • —
- Methacrylate, dms., c.l., and less than truckload, works, frt. equald ... lb. .51½ .52
- Morphine hydrochloride, USP, bots ... oz.11.85 • —
- Nitrite (see Nitrous ether).
- Oenanthate, dms ... lb. 1.00 • 1.50
- Oleate, dms., l.c.l., works ... lb. No prices.
- Oxalate (see Diethyl oxalate).
- Silicate dist. (see Tetraethylorthosilicate).
- 40% available SiO_2, dms., c.l., dlvd ... lb. .49 • —
- l.c.l., dlvd ... lb. .50 • —
- tanks, dlvd ... lb. .47 • —
- N-Ethyl-a-naphthylamine, dms., works, lb. 1.02 • —
- N-Ethyl-o-toluidine, bbls ... lb. .88 • —
- Ethylamine (see Mono, Di- or Tri-)
- N-Ethylaniline, dms., c.l., frt. alld, lb. .51 • —
- l.c.l., frt. alld ... lb. .52 • —
- tanks, frt. alld ... lb. .50 • —
- Ethylbenzene, 99%, dms., c.l ... lb. .19½ .20¼
- l.c.l ... lb. .20½ .21¼
- tanks ... lb. .18½ —
- Ethylene dichloride, dms., c.l., dlvd, lb. .10¼ • —
- l.c.l., same basis ... lb. .12¼ • —
- tanks, same basis ... lb. .09 • —

Ethylene dichloride prices W. of Rockies 1c per lb higher.
- Glycol, indust., dms., c.l., dlvd, E ... lb. .15½ • —
- l.c.l., same basis ... lb. .16½ • —
- tanks, same basis ... lb. .13½ • —
- Monobutyl ether, dms., c.l., dlvd, E ... lb. .21½ • —
- l.c.l., dlvd, E ... lb. .22½ • —
- tanks, dlvd, E ... lb. .19½ • —
- Monoethyl ether, dms., c.l., dlvd, E ... lb. .20½ • —
- l.c.l., dlvd, E ... lb. .21½ • —
- tanks, dlvd, E ... lb. .18½ • —
- Acetate, dms., c.l., dlvd, E ... lb. .18½ • —
- l.c.l., dlvd, E ... lb. .19½ • —
- tanks, dlvd, E ... lb. .16½ • —
- Monomethyl ether, dms., c.l., dlvd, E ... lb. .20½ • —
- l.c.l., dlvd, E ... lb. .21½ • —
- tanks, dlvd, E ... lb. .18½ • —
- Acetate, dms., c.l., dlvd, E lb. .28¾ • —
- l.c.l., dlvd, E ... lb. .29¼ • —
- tanks, dlvd, E ... lb. .27 • —
- Monostearate, triple pressed, dms lb. .34 • —
- Oxide, dms., c.l., dlvd, E ... lb. .21½ • —
- l.c.l., dlvd, E ... lb. .24½ • —
- tanks, dlvd, E ... lb. .15½ • —
- Trichloride (see Trichloroethane).
- Ethylenediamine, 85-88%, dms., c.l., dlvd, E., 100% basis lb. .46 • —
- l.c.l., dlvd, E., 100% basis lb. .47 • —
- tanks, dlvd, E., 100% basis lb. .44 • —
- Ethylvanillin, cns., 25-lb. lots ... lb. 6.75 • 7.30
- smaller lots ... lb. 7.35 • 7.40
- Eucalyptol, USP, cns., dms ... lb. 1.40 • 1.50
- Eugenol, USP, bots ... lb. 2.20 • 3.25
- Euphorbia herb, bls ... lb. .15 • .17

F

- Feldspar, 140-200 mesh, bulk, c.l., works ton.19.50 • —

Feldspar in bags $3 per ton higher.
- Fennel seed, Argentine, bgs ... lb. .17 • —
- Czech, medium, bgs ... lb. .11 • —
- Indian, light, bgs ... lb. .12 • —
- Fenugreek seed, Indian, bgs ... lb. .09½ • —
- Moroccan, bgs ... lb. .09½ • —
- Ferric acetate, liquor, 28°, bbls., c.l., works lb. .09 • —
- l.c.l., works ... lb. .09¾ • —
- soln., USP IX, cbys ... lb. .16 • —
- djns ... lb. .17 • —
- Cacodylate, NF, bots ... lb.13.00 •14.00
- Chloride, anhyd., tech., dms., c.l., works ... 100 lbs. 6.75 • —
- l.c.l., works ... 100 lbs. 8.00 • —
- indust., cryst., bbls., c.l., works. 100 lbs. 4.75 • 5.25
- l.c.l., works ... 100 lbs. 5.75 • 6.25
- 42° Be, cbys., c.l., works. 100 lbs. 7.25 • 8.25
- tanks, frt. equald, 100% basis 100 lbs. 3.25 • —
- USP, cryst., dms., works ... lb. .07½ • .09
- Citrate, gran., dms ... lb. .86 • —
- Glycerophosphate, NF, powd lb. 4.75 • 4.85
- Hydrophosphite, NF, dms ... lb. 3.45 • —
- Naphthenate liq., 6% Fe., dms., frt. alld lb. .25¾ • —
- Oxalate, gran., dms ... lb. .85 • .87
- Phosphate, NF, soluble, gran., pearls, cs lb. .64 • .65
- Pyrophosphate, NF VII, soluble, gran., pearls, dms lb. .78 • .81
- Resinate, 6¾% Fe, dms., frt. alld, lb. .29¼ • —
- Stearate, dms., c.l., frt. alld ... lb. .37 • —
- lb. .37 • —
- l.c.l., frt. alld ... lb. .38 • .42
- Sulfate, partially hydrated, bgs., c.l., works ... ton.31.75 •33.75
- l.c.l., works ... ton.34.75 •40.75
- Ferric-ammonium citrate, brown, NF, gran., dms lb. .56 • .59
- green, USP XII, gran., dms lb. .56 • .59
- Oxalate, fine gran., dms ... lb. .25½ • .28¼
- Ferric-potassium, oxalate, fine gran., dms lb. .30½ • .33¼
- Ferric-sodium oxalate, fine gran., dms lb. .25½ • .28¼
- Ferrous gluconate, NF, dms ... lb. .88 • —
- Sulfate, gran., bgs., c.l., works. ton.34.50 • —
- l.c.l., dlvd. Metropolitan area ... 100 lbs. 3.35 • 4.25
- bbls., c.l., works ... ton.40.00 • —
- bulk, c.l., works ... ton.27.00 • —
- USP cryst., bbls., dms ... lb. .09½ • .10
- Fir balsam, Canada, cns ... gal.32.00 • —
- Oregon, bbls ... gal. 4.00 • —
- Fishliver oil (see Oil fishliver).
- Fishmeal, dom., menhaden, 60% protein grd., bgs., Balto. area. ton.131.00 • —
- Fishscrap, menhaden, dried, 60% protein, bgs., Balto area ... ton.127.00 • —
- Formaldehyde, NF, 37%, (inhibited), methanol, Zone 1, dms., c.l., dlvd ... lb. .0675 —
- l.c.l., works ... lb. .072 • .0725
- tanks, dlvd ... lb. .04 • —
- Zone 2, 12-15% methanol, dms., c.l., dlvd ... lb. .071 • —
- tanks, dlvd ... lb. .043 • —
- methanol-free (uninhibited), Zone 1, tanks, dlvd ... lb. .0375 —
- Zone 2, tanks, dlvd ... lb. .04 • —
- Fleaseed (see Psyllium seed).
- Fringetree bark, bls ... lb. .60 • .61

pack and sell in tubes by WIRZ

IDEAS THAT INDICATE THE GROWING LIST OF PRODUCTS SUCCESSFULLY PACKAGED FOR GREATER SALES IN COLLAPSIBLE METAL TUBES BY WIRZ.

NOW...HAIR GROOMING COMES IN A TUBE—BY WIRZ

Consumers who want a quick, easy treatment for hair and scalp prefer Wildroot Cream-Oil . . . conveniently packaged in an attractive collapsible metal tube by Wirz.

Sales-minded manufacturers of cream and semi-liquid drugs and cosmetics are finding new markets for their products, thanks to the added protection, convenience and consumer appeal afforded by Wirz tubes. Why not discuss the advantages of Wirz tubes for your product with a representative of the Wirz Packaging Laboratory. There's no obligation.

Write us today about your special packaging needs

ESTABLISHED 1836 A. H. WIRZ Inc.

COLLAPSIBLE METAL TUBES AND PLASTIC MOLDING

2304 W. TOWNSEND ST., CHESTER, PA.
BRANCH PLANT: CARROLLTON, KENTUCKY

New York 17, N.Y. 50 E. 42nd St.
Chicago 4, Ill. 80 E. Jackson Blvd.
Memphis 2, Tenn. Wurzburg Bros.
Los Angeles 48, Calif. 435 S. La Cienega Blvd.
Havana, Cuba Roberto Ortiz & Son
Export Div.—1010 Schaff Bldg. Philadelphia 2, Pennsylvania

Fuller's earth, bgs., c.l., Ill. mines, ton 19.00 - —
powd., insecticide grade, dried, bgs., c.l., Ga. or Fla. mines ton 17.50 - —
calcined, bgs., c.l., same basis ton 20.00 -21 75
oil-bleaching grade, 100-mesh, bgs., c.l., same basis ton 16.50-17.00
200-mesh, bgs., c.l., same basis ton 17.50 -18.00
spent, bgs., c.l., shipt. point ton. 4.50 - 5.00
Furfural, dms., c.l., works lb. .13 - —
l.c.l., works lb. .14 - —
tanks, dlvd. E lb. .12 - —
dlvd. W lb. .13 - —
Fusel oil, refd., dms., c.l., dlvd lb. .22 - —
l.c.l., dlvd. lb. .23 - —
tanks, dlvd. lb. .20 - —
Fustic extract, cryst., No. 1, bbls., l.c.l lb. .47½- —
No. 2, bbls., l.c.l lb. .45½- —
No. 3, bbls. l.c.l lb. .43½- —
liq., No. 1, bbls., l.c.l. lb. .22½- —
No. 2, bbls lb. .21½- —
No. 3, bbls. l.c.l lb. .19 - —
solid, No. 1, bxs., l.c.l. lb. .45 - —

G

G salt, bbls., frt. alld, 100% basis lb. .73 - —
Gamma-picoline (see g-Picoline).
Gelatin, edible, pure (pork skin), 75 Bloom test, bbl., c.l. lb. .53 - —
150 Bloom test, bbl., c.l. lb. .64 - —
200 Bloom test, bbl., c.l. lb. .71 - —
225 Bloom test, bbl., c.l. lb. .74 - —
275 Bloom test, bbl., c.l. lb. .81 - —
Gelsemium root, bls lb. .23 - .24
Gentian root, bls lb. .17 - .20
grd., bbls., bxs lb. .22 - .23
powd., bbls., bxs lb. .23 - .24
Geraniol, extra, cns., dms. lb. 3.90 - —
standard, cns., dms. lb. 3.65 - —
Geranyl acetate, cns. lb. 3.90 - —
Ginger oleoresin, NF, from African root, bots. lb. 4.00 - 7.75
from Jamaican root, bots. lb. 6.00 -10 25
Root, African, bls lb. .34 - —
Jamaica, No. 1, bgs. lb. No prices.
No. 2, bgs. lb. .45 - —
No. 3, bgs. lb. .44 - —
Nigerian, split, bgs. lb. .29 - —
Glauber's salt, anhyd (see Sodium sulfate).
Glue, bone, extracted, 86 jellygrams, bgs., c.l., dlvd. lb. .15 - —
104 jellygrams, same basis lb. .17 - —
131 jellygrams, same basis lb. .18 - —
164 jellygrams, same basis lb. .20½- —
191 jellygrams, same basis lb. .21 - —
222 jellygrams, same basis lb. .22 - —
packers' 40 jellygrams, bgs., c.l., dlvd lb. .14 - —
65 jellygrams, same basis lb. .14½- —
86 jellygrams, same basis lb. .15 - —
115 jellygrams, same basis lb. .15½- —
135 jellygrams, same basis lb. .18½- —
164 jellygrams, same basis lb. .19½- —
renderers' 115 jellygrams, bgs., c.l., dlvd lb. .15 - —
Bone glue, l.c.l. prices 1c. higher.
Hide, 70-94 jellygrams, bgs., c.l., dlvd. lb. .15 - —
95-121, bgs., c.l., dlvd. lb. .16 - —
122-149, bgs., c.l., dlvd. lb. .18½- —
150-177, bgs., c.l., dlvd. lb. .21 - —
178-206, bgs., c.l., dlvd. lb. .23½- —
207-236, bgs., c.l., dlvd. lb. .26 - —
237-266, bgs., c.l., dlvd. lb. .28 - —
267-298, bgs., c.l., dlvd. lb. .30 - —
299-330, bgs., c.l., dlvd. lb. .32 - —
331-362, bgs., c.l., dlvd. lb. .34 - —
363-394, bgs., c.l., dlvd. lb. .36 - —
395-427, bgs., c.l., dlvd lb. .38 - —
428-460, bgs., c.l., dlvd. lb. .39 - —
461-494, bgs., c.l., dlvd. lb. 40 - —
495-529, bgs., c.l., dvld. lb. .41 - —
Hide glue l.c.l. prices 1c. higher.
Glycerine, nat., crude, saponification, 88%, to refineries, tanks, works lb. .23 - 23½
soapiive, 80%, tanks, works lb .21 Nom.
refd., BP, 98%, dms., c.l., dlvd. lb. .30½- —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
dynamite, dms., c.l., dlvd lb. .30½- —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
high gravity, dms., c.l., dlvd. lb. .30½- —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
USP, CP, 95%, dms., c.l., dlvd. lb. .29½- —
l.c.l., dlvd lb. .30 - —
tanks, dlvd lb. .29 - —
yellow, distilled, dms., c.l., dlvd. lb. .30 - —
l.c.l., dlvd lb. .30½- —
syn., dms., c.l., dlvd. lb. .30½- —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
Glycine (see Acid aminoacetic).
Glycerol (see Glycerine).
Glyoxal, 30%, dms., c.l., works lb. .18½- —
l.c.l., works lb. .19 - —
tanks, works lb. .18 - —
Golden seal root, NF, tested, bls. lb. 2.25 - 2.50
powd., bxs lb. 2.75 - 3.25
Graphite, amorph., powd., bgs., fib. dms., ex whse lb. .08 - .09½
crystalline, 88-90%, powd., bgs., fib. dms., ex whse lb. .19 - .21½
90-92%, powd., bgs., fib. dms., ex whse lb. .21 - .24½
95-97%, powd., bgs., fib. dms., ex whse lb. .29 - .31½
flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
No. 2, 90-95%, bgs., fib. dms., ex whse lb. .29 - 31
Grease, brown, tanks, dlvd. lb. .05½ Nom.
house, tanks, dlvd. lb. .06½ Nom.
white, choice, all hog, tanks, dlvd. lb. .08½- —
not all hog, tanks, dlvd. lb. .08 - —
yellow, tanks, dlvd lb. .07 - —
Green, brilliant, thioflavin, toner, molybdated, PMA, kgs., works lb. 5.10 - —
tungstated, PTMA, kgs., works. lb. 6.20 - —
Chrome, CP, dark, light, medium, blue content 1 to 15%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minn., Davenport, Rock Island, St. Louis lb. .38 - —
16-30%, bbls., same basis lb. .39 - —
31-45%, bbls., same basis. lb. .40 - —
45-49%, bbls., same basis. lb. .43 - —
50%, bbls. same basis lb. .48 - —
reduced color, 25%, bbls., same basis lb. .19 - —

Chrome green prices are ½c. higher, dlvd., at the following points, except as noted:—Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

Green chromium oxide, hydrated, bbls., dms., c.l., frt. alld. lb. 1.00 - 1.10
pure, bgs., c.l., frt. alld. lb. .39¾- —
l.c.l., same basis lb. .40¼- —
Dyes (see Dyes, coaltar).
Malachite, straight, PTMA, bbls., works lb. 4.60 - —
Paris (see Paris green)
Phthalocyanine toner, bbls., works. lb. 3.95 - —
resinated, bbls lb. 3.50 - —
water dispersable, bbls lb. 1.71 - —
Pigment B, kegs lb. 1.35 - —
paste, kegs lb. .38 - —
Grindelia robusta herb, bls lb. .38 - .40
Guaiacol, NF, cryst., dms., tins lb 2.10 - 2.15
liq., cbys., dms lb. 2.30 - 2.40
Carbonate, NF VII, dms lb 3.40 - 3.45
Gum, aloe (see Aloe)
Arabic amber sorts, bgs. lb. .22 - .23
powd., USP, bbls. lb. .27 - 28
Asafetida (see A).
Asphaltum (see A).
Benzoin Sumatra, cs lb. .38 - .42
Camphor (see C).
Cellulose, high vis., bgs., 23,000-lb. lots or more, works, frt. alld lb. .55 - —
smaller lots, same basis lb. .57 - —
Copal, Congo, No. 1, bgs. lb. .23 - —
No. 2, bgs lb. .18½- .20
No. 3, bgs lb. .16½- .18
Manila C, bgs lb. .42 - .44
CBB, bgs lb. .37 Nom.
DBB, bgs lb. .33 - .35
DK, bgs lb. No Stocks
dust, bgs lb. .14 - .16
MA, soft, bgs lb. .23 - .25
WS, bgs lb. .34 - .36
Philippine, pale, chips, bgs lb. .24 - .26
nubs, bgs lb. .34 - .36
seeds, bgs lb. .20 - .22
sorts, bgs lb. .22 - —
Gum, pontianak, chips, bgs lb. .28 - —
nubs, bgs lb. .39 - .40
Dammar, Batavia, A/E, cs. lb. .27 - .29
dust, bgs lb. .16½- .17½
E, bgs lb. .20 - .22
East India, batu, bold, bgs. lb. .14 - .15½
nubs and chips, bgs. lb. .08 - .09
black, bold, bgs lb. .14 - .16
unscraped, bgs lb. .11 - .13
nubs and chips, bgs. lb. .11 - .13
pale, chips, bgs lb. .13½- .14½
nubs, bgs lb. .18 - .20
Siam, cs. lb. .37 - —
Singapore, No. 1, bgs lb. .43 - .45
No. 2, bbls lb. .27 - .29
No. 3, bbls lb. No stocks.
dust, bgs lb. .16½- .17
seeds, bgs lb. .20 - .22
Ester, gum-rosin type, dms., c.l., dlvd. Ill., Ind., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va lb. .15½- —
wood-rosin type, dms., c.l., same basis lb. .15 - —
Guar, food grade, bgs., l.c.l. lb. .40 - .50
tech. grade, bgs., c.l. lb. .32 - —
Karaya, No. 1, NF, powd., bbls. lb. .55 - —
No. 2, powd., bbls. lb. .45 - —
No. 3, powd., bbls lb. .40 - —
Locust bean, powd., bgs. lb. .28 - .30
Myrrh, cs. lb. .38 - .40
Opium (see O).
Olibanum siftings, cs lb. .15 - .20
tears, cs. lb. .22 - .30

Fuller's Earth—Heptane

Gum, rosin (see Naval Stores, Protective Coatings Market).
Sterculia (see Gum Karaya).
Tragacanth, No. 1, ribbons, cs lb. 3.00 - 3.50
No. 2, cs lb. 2.35 - 2.60
No. 3, cs lb. 1.75 - 1.80
powdered, USP, bbls lb. 1.25 - 1.35
Gypsum, plaster of paris, 100-lb. paper, bgs., trucks, dlvd. N. Y. C ton 20.30 - —
terra alba., dom., paper bgs., same basis ton 19.00 - —
works, N. Y. C. ton 16.00 - —
imp. English, 100-lb. paper bags, ex dock, N. Y. C. ton 55.00 - —
ex warehouse ton 60.00 -62.00

H

Hawthorn berries, bgs. lb. .28 - .32
Heliotropin, cryst., cns. lb. 4.10 - 4.50
Hellebore root, dom., green, bls. lb. .70 - .75
Helonias root, bls lb. 1.75 - 2.00
Hematine extract, cryst., No. 1, bbls., l.c.l. lb. .47 - —
No. 2, bbls., l.c.l. lb. .43 - —
No. 3, bbls., l.c.l. lb. .41 - —
No. 4, bbls., l.c.l. lb. .39 - —
No. 5, bbls., l.c.l. lb. .37 - —
paste, No. 1, bbls., l.c.l. lb. .20½- —
Henbane leaves, bls lb. .35 - .40
Heptane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .14¾- —
Borger, Tex gal. .14¾- —

write for
your free copy
This 24-page booklet alphabetically lists the many chemicals available from Harshaw. Read the story about Harshaw's growth since its beginning in 1897. Pictures of plants, warehouses, research and manufacturing operations are scattered throughout the book. We will gladly send you a copy if you write.
An alphabetical list of
HARSHAW INDUSTRIAL CHEMICALS
HARSHAW

THE HARSHAW CHEMICAL CO.
CLEVELAND 6, OHIO
Chicago • Cincinnati • Cleveland • Detroit • Houston • Los Angeles
New York • Philadelphia • Pittsburgh

THE HARSHAW CHEMICAL CO.
CLEVELAND 6, OHIO

I would like a copy of your free booklet "An Alphabetical List of Harshaw Industrial Chemicals."

MY NAME _____
COMPANY NAME _____
ADDRESS _____
CITY _____ ZONE _____ STATE _____

Hesperidin Methylphalcone—Lime, Spray

Hesperidin methylphalcone, bots., works lb 50.00 - —
Hexachlorophene, dms ..... lb 2.60 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 20,000-lb. lots or more, Perth Amboy or N.Y.C. lb. .222 - —
1,000-19,999-lb. lots, same basis lb. .232 - —
smaller lots, same basis lb. .242 - —
fib. dms., 1,000-lb. lots or more, same basis lb. .229 - —
smaller lots, same basis lb. .249 - —
USP, dms., 500-lb lots or more, same basis lb. .40½- —
smaller lots, same basis lb. .41½- —
Hexane, indust., tanks, Bayonne, N. J. gal. .19 - —
Baytown, Tex. ..... gal. .15½- —
Borger, Tex. ..... gal. .13½- —
1-Hexanol, dms., c.l., works ..... lb. .34½- —
l.c.l., works ..... lb. .35 - —
tanks, works ..... lb. .33 - —
Hexyl cinnamic aldehyde, dms lb. 4.00 - 7.50
Salicylate, dms lb 1.75 - —
Hexylene glycol, dms., c.l., dlvd lb. .16 - —
l.c.l., dlvd ..... lb. .17 - —
tanks, dlvd ..... lb. .14 - —
2-Hexyl methacrylate, dms., less than truckload, works lb. .71 - —
Hexylresorcinol, USP, dms., 50-lb. lots or more, dlvd lb 14.00 - —
smaller lots, dlvd lb 14.50 - —
Histamine diphosphate, USP, bots. kilo.400.00 - —
l-Histidine hydrochloride, NF, fib. dms., 50-kilo lots, works. kilo 80.00 85.00
1.5 kilo lots, works ... kilo.90.00 95.00
Homatropine hydrobromide, USP, bots oz. 8.50 - —
Methylbromide, USP, bots ... oz. 5.65 - —
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton. 6.25 - —
Horehound herb, bls..... lb. .16 - .19
Hydrastine, bots ..... oz.29.50 -31.00
Hydrochloride, NF, bots .... oz.29.50 -31.00
Sulfate, bots ..... oz.25.00 -37.00
Hydrastinine, 10-grain bots..... bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrate, 100%, ret. dms., Lake Charles, La..... lb. 1.60 - 1.90
Hydrazine, free base, ret. dms., Lake Charles, La lb. 3.00 - 3.30
85% ret. dms., same basis lb. 1.35 - 1.55
Hydrocortisone acetate, bulk, bots., dms gram. 6.00 - —
Alcohol, bulk, bots., dms gram. 6.00 - —
Hydrofuramide, dms., fib. ctns., works lb. .30 - .40
Hydrogen chloride, anhyd., 50-lb. cyls., c.l., works lb. .45 - —
l.c.l., works ..... lb. .55 - .60
Fluoride anhyd., cyls., dlvd. E lb. .30½- .32½
dlvd. W ..... lb. .39 - —
tanks, works ..... lb. .21 - —
Peroxide, USP, bbls., dlvd .... lb. .03¾- .05
35%, dms., c.l., dlvd ..... lb. .202 - —
l.c.l., dlvd ..... lb. .211 - —
tanks, dlvd ..... lb. .1800- —
Hydroquinone, photo grade, bbls., dms lb. .98 - 1.00
tech., dms., c.l., dlvd ..... lb. .77½- —
l.c.l. same basis ..... lb 79½- —
Hydroxycitronelial, cns ..... lb. 7.65 - 7.90
Hyoscine salts (see Scopolamine).
Hyoscyamine, bots ..... oz.15.75 -16.00
Hydrobromide, bots ..... oz.11.00 -12.00
Sulfate, bots ..... oz.10.50 -11.50
Hypernic extract, cryst., No. 2, bbls., l.c.l. lb. .52 - —
liq., No. 1, bbls., l.c.l. ..... lb. .35 - —
No. 2, bbls., l.c.l ..... lb. .27 - —

I

Ichthammol, NF, dms..... lb. .60 - .75
Indian red (see Red, Indian).
Indigo (see Dyes, coaltar, 1171 Indigo synthetic).
Indole, CP, bots..... lb.17.00 -21.00
Inositol, bots., dlvd..... lb. 5.00 - —
cms., dlvd. ..... lb. 4.50 - 4.75
Insect flowers (see Pyrethrum).
Iodine, crude, kgs..... lb. 1.45 - —
resub, USP, dms., jars..... lb. 2.30 - 2.32
Iodochlorohydroxyquinolin, USP, dms lb. 5.90 - —
Iodoform, NF, dms., kgs..... lb. 4.90 - 5.00
a-Ionone, cns. ..... lb. 5.55 - 5.85
b-Ionone, cs. ..... lb. 6.00 - 7.70
Methyl (see under M).
Ipecac root, bgs ..... lb. 8.50 - 9.00
powd., bbls., bxs..... lb.10.00 -10.25
Irish moss, bleached, prime, bls lb. .30 - .35
Iron Compounds (see Ferric or Ferrous).
Isoborneol, cns..... lb. 1.25 - 1.70
Isobornyl acetate, cns..... lb. .62 - .95
Formate, dms..... lb. .80 - —
Propionate, dms..... lb. 1.15 - 1.45
Isobutyl acetate, perfume grade, cns lb. .75 - 1.00
solvent grade, dms., c.l., dlvd. E. of Rockies lb. .13¼- —
l.c.l., same basis..... lb. .14¼- —
tanks, same basis..... lb. .11¼- —
Isobutyraldehyde, CP, dms., c.l., dlvd lb. .27½- —
l.c.l., dlvd..... lb. .28½- —
tech., dms., c.l., dlvd..... lb. .21½- —
l.c.l., dlvd..... lb. .22½- —
tanks, dlvd..... lb. .19½- —
Isocugenol, cns. ..... lb. 4.40 - 4.75
Isoniazid, powd., bulk, 25-kilo lots or more, kilo.23.00 -25.50
smaller lots..... kilo.24.00 -26.00
Isopentane, coml. grade, tanks, f.o.b. Tex. refy. gal. .15½- —
Isonicotinic acid hydrazide (see Isoniazid).
Isophorone, dms., c.l., works... lb. .24¼- —
l.c.l., works..... lb. .24¾- —
tanks, works..... lb .22½- —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., dlvd. lb. .12 - —
l.c.l., same basis..... lb. .13 - —
tanks, same basis..... lb. .10 - —
Alcohol (see Alcohol, isopropyl).
Benzene (see Cumene).
Ether, dms., c.l., dlvd ..... lb. .07 - —
l.c.l., dlvd..... lb. .08 - —
tanks, dlvd..... lb .05 - —
Isopropyl-N-(3-chlorophenyl) carbamate, 70% CIPC in xylol, dms., c.l., t.l., works lb. .70 - —
l.c.l., works..... lb. .814 - .814
Isopropyl-N-phenyl carbamate, 450-lb. fib dms., c.l., t.l., works. lb. .75 - —
l.c.l., works..... lb. .80 - .90
Isopropylamine (see Mono, Di, or Tri-).
Isoquinoline, dms., works..... lb .65 1.25

J

Jalap root, NF, bls ..... lb. .38 .55
powd., bbls., bxs..... lb. .49 .66
Juniper berries, bgs..... lb. 18 .20
Tar, NF, dms..... lb. .42 .60

K

Kaolin (see also Clay, China).
NF, powd., fib. dms. ..... lb. .10 - .12
colloidal, fib., dms. ..... lb. .15½- .17½
Kola nuts, bgs..... lb. .15 - —

L

Lactose, crude, bgs., c.l., works lb. .15 - —
edible, fib. dms., 30,000-lb. lots, works lb. .22 - —
2,000-lb. lots, works ..... lb. .22¾- —
200-1,800-lb. lots, works ... lb. .23¼- —
Edible lactose in bgs. lc. lower.
fermentation grade, bgs., c.l., works lb. .08½- —
USP, fib. dms., 30,000-lb. lots, works lb. .24 - —
2,000-lb. lots, works ..... lb. .24¾- —
200-1,800-lb. lots, works ... lb. .25¼- —
USP lactose in bgs. lc. lower.
Lady's slipper root, bls ..... lb. 1.70 - 1.75
Lanolin, cosmetic, dms., works lb. .28 - .30
USP, anhyd., dms., works..... lb. .23 - .23
hydrous, dms., works..... lb. .25 - .27
Lard, cash, dms., Chicago..... lb. .1[illegible] -
Larkspur seed, bgs ..... lb. .20 - .23
Laurel leaves, Greek, bls ..... lb. .12 - .13
Portuguese, bls..... lb. .12 - —
Turkish, bls. ..... lb. .24 - —
n-Laurel methacrylate, dms., c.l. or t.l., works lb. .65½- —
Lavender flowers, medium, bls lb. .55 - .60
ord., bls..... lb. .16 - .20
select., bls ..... lb. .90 - —
Lead acetate, white, cryst., bbls lb. .22 - —
gran., bbls ..... lb. .23 - —
powd., bbls ..... lb. .23 - —
NF, cryst., gran., powd ..... lb. .31 - .32
Arsenate, acid powder, dealers, 3-lb. bgs. or larger, c.l., frt. alld, on 96 lbs. or more lb. .27½- —
l.c.l., frt alld ..... lc. .28½- —
1-lb. bgs., c.l. ..... lb. .41½- —
l.c.l. ..... lb. .42½- —
Blue, basic sulfate, bbls., c.l., shipt. point, frt. alld lb. .15¾- —
l.c.l., same basis lb. .16¾- —
Carbonate (see Lead, white, basic carbonate).
Chloride, dms. ..... lb. .45 - —
Iodide, NF, V jars ..... lb 3.82 - —
Linoleate fused, 26%% Pb, dms. lb. .33 - —
Metal, pigs, prime, N. Y ... lb. .15 - —
St. Louis ..... lb. .1430- —
Metallic paste, dms., 20,000-40,000-lb. lots lb. .33¾- —
10,000-20,000-lb. lots, same basis lb. .34¾- —
200-2,000-lb. lots, same basis, lb. .35¾- —
Prices ex wnse, Jersey City, N. J., 4½c per lb. higher
Monosilicate, bgs., c.l., works, frt. equald lb. .1530- —
l.c.l. same basis lb. .1630- —
Naphthenate, liq., 16% Pb, dms., dlvd lb. .17 - —
24% Pb., dms., dlvd ..... lb. .21 - —
solid, 37% Pb., dms., dlvd... lb. .27½- —
Nitrate, bbls lb. .22¼- —
Orthosilicate-silica gel, 50-60% PbO, dms., works lb. .29¾- .34¼
Peroxide, tech., powd., bbls lb. .33¾- .39¼
Phthalate, dibasic, dms., works lb. .41 —
Red, 95% Pb.O., or less, bbls., c.l., works, frt. alld lb. .17½- —
l.c.l., same basis ..... lb. .18 - —
97% Pb_3O_4, bbls., c.l., same basis lb. .17¾- —
l.c.l., same basis..... lb. .18¼- —
95% Pb_3O_4, bbls., c.l., same basis lb. .18 - —
l.c.l., same basis lb. .18½- —
Resinate, precip., 23% Pb, dms., dlvd lb. .32½- —
Salicylate, normal, dms., works lb. .46 - —
Silicate (see Lead, white, basic, silicate).
Sulfate (see Lead, blue, basic sulfate, Lead, white, basic sulfate)
Tallate, liquid, 16% Pb., dms lb. .15 - —
24% Pb., dms ..... lb. .18½- —
solid, 30% ..... lb. .23¼- —
White, basic carbonate, bgs., c.l., shipt. point, frt. alld lb. .17½- —
l.c.l., same basis lb. .18½- —
silicate, bgs., c.l., shipt. point, frt. alld lb. .16 - .19¼
l.c.l., same basis lb. .17 - .20¼
sulfate, bgs., c.l., shipt. point, frt. alld lb. .15¾- —
l.c.l., same basis lb. .16¾- —
Lecithin, edible, tech., bleached, non-ret. dms., c.l., works lb. .15 .17
l.c.l., same basis lb. .15½- .17½
unbleached, non-ret., dms., c.l., same basis lb. .13 - .15
l.c.l., same basis ..... lb .14½- 16¼
dl-Leucine, cms., works ..... lb.12.95 -15.00
Licorice root, whole, bbls..... lb. .10 - .12
gran., bbls ..... lb. .15 - .17
powd., bbls ..... lb. .12 - .15
Lignosulfonate, 70% tannin, bgs., c.l., works lb. .06½- —
l.c.l., works lb .06¾- —
Lime, chemical (quicklime), bulk, c.l., metropolitan, N. Y. destination, freight equalized with nearest producing point ton.18.71 - —
Hydrated bulk, c.l., same basis ton.20.21 - —
Spray, bulk, c.l., same basis ton.23.21 - —

VERSENE PRODUCTS — Versene® is a powerful chelating agent for polyvalent metallic cations throughout the pH range, with the exception of iron in alkaline solution (See Versen-OL). Versene is prepared as a liquid, a liquid concentrate, or in solid forms and is essentially a technical grade of the tetra sodium salt of EDTA that has a high capacity for chelating alkaline earth metals. VERSENE inactivates all metallic ions but is not especially effective for chelating iron in *alkaline* solutions, yet it is the best iron chelating agent for use in *acidic* solutions. This low cost, powerful, multi-purpose chelating agent has numerous industrial applications and should be evaluated first in trying to improve metallic cation control. (Available as liquid or powder)

VERSEN-OL is a technical grade of the trisodium salt of N-hydroxyethylethylene diamine triacetic acid. It is a very effective agent for chelating trivalent iron from pH 7 to pH 10. It forms strong 1:1 ferric chelates. After chelating the iron it will then chelate other heavy metal or alkaline earth ions. (Available as liquid or powder)

VERSENE Fe3 SPECIFIC is the most powerful chelating agent known for *iron* in the alkaline pH range. It also chelates copper, nickel, cobalt, and zinc. (Available as 47% solution)

VERSENE Fe3 is a combination of VERSENE and VERSENE Fe3 SPECIFIC. It chelates both iron and other metallic ions. (Available as liquid or powder)

VERSENE-T chelates ferric and divalent metal ions including hard water salts in *any* caustic solution. (Available as 55.5% solution)

VERSENE-9. This is a technical grade of the trisodium salt of EDTA. It has a pH of 9.3 in solution at 1% concentration. 1 gram chelates a minimum of 242 mgms. of $CaCO_3$. Its general chemical reaction is identical to Versene.

VERSENE IRON CHELATE is an agricultural Versene to correct iron deficiency and cure chlorosis in citrus and other green growth occurring in *acid* soils. It is the disodium iron chelate of EDTA absorbed into inert vermiculite for convenience in application. (Available in 50 lb. bags)

VERSEN-OL IRON CHELATE for agriculture is the monosodium iron complex of Versen-OL. It contains 19% min. of iron chelate calculated as NaFeEEDTA, (4.29% Fe as Fe_2O_3). Balance inert. Cures iron deficiency in plants growing in *any* soil. (Available in 50 lb. bags)

VERSENE — MADE FOR YOU — When you have a problem involving excesses or deficiencies of metallic ions in solution the Versene products can help you. They can selectively track down and inactivate traces of practically any ionized metal (Mn, Pb, Ca, Cu, Zn, Fe, etc.) in solution. As precise and powerful chelating agents, they give mole-for-mole control over cations. They may be used for many separations including the rare earths. Also, for the preparation of metallic chelates, especially useful in the polymerization of rubber, plastics, etc. Especially important is their use in the development of new analytical procedures and techniques. It will pay to investigate. Ask for technical data and sample.

WAREHOUSE STOCKS

Chas. S. Tanner Co., Charlotte, N. C., Greenville, S. C., Knoxville, Tenn.
Kraft Chemical Co., Inc., 917 West 18th Street, Chicago 8, Illinois
Independent Chemical Corp., One Hanson Place, Brooklyn 17, N. Y.
Barada & Page, Inc., Houston, Dallas, Corpus Christi, New Orleans, St. Louis, Wichita, Oklahoma City, Tulsa, Kansas City, Mo.
George Mann & Co., Inc., 251 Fox Point Blvd., Providence, R. I.
Braun-Knecht-Heimann Co., San Francisco, Calif., Salt Lake City, Utah
Van Waters & Rogers, Inc., Seattle, Wash., & Portland, Ore.
Braun Corporation, Los Angeles, California
European Manufacturing Agent:
Rexolinfabriken Aktiebolag, Helsingborg, Sweden

THE DOW CHEMICAL COMPANY
MIDLAND • MICHIGAN
Dow

Lime salts (see Calcium).
Lime-ammonium nitrogen 20.5% N (see Ammonium nitrate with dolomite).
Limestone, grd., bgs., works ton. 3.50 - 4.00
Linalool, ex bois de rose oil, dms. lb. 6.40 - 7.65
ex lignaloe wood oil, dms lb. 5.30 - 7.10
Linalyl acetate, ex bois de rose, 90-92%, dms. lb. 6.15 - 7.95
98-98%, dms lb. 6.75 - 7.15
ex petitgrain, bots. lb. 5.95 - 6.70
Lindane, 25% formulation, dealers, dms., works lb. 1.58 - —
99%, tech. dealers, dms., dlvd., lb. 3.10 - —
Linden flowers with leaves, bls lb. .30 - —
without leaves, bls lb. .35 - —
Linseed meal, expeller, 32-34% bulk, Midwest, mills ton.59.00 -60.00
extracted 36% bulk, same basis. ton.56.00 -56.50
Litharge, coml., powd., bbls., c.l., works, frt. equald lb. .16½- —
l.c.l., same basis lb. .17 - —
Lithium benzoate, cms lb. 1.65 - 1.67
Bromide, NF, dms., works, frt. equald lb. 2.16 - —
Carbonate, NF, dms., c.l., t.l., dlvd. lb. 1.29½- —
ton lots to t.l., dlvd lb. 1.30 - —
tech., dms., c.l., t.l., dlvd., frt. alld., works lb. .85 - 1.12½
l.c.l., same basis lb. .90 - 1.13½
Chloride, CP, anhyd., ton lots lb. 1.28½- —
tech., cryst., dms., c.l., t.l., dlvd., frt. alld., works lb. 1.05 - 1.10½
l.c.l., same basis lb. 1.10 - 1.25
Citrate, NF, dms lb. 1.60 - 1.64
Fluoride, bbls., 10,000-lb. lots, dlvd. lb. 2.17½- —
ton lots, dlvd lb. 2.18½- —
less ton lots, dlvd lb. 2.23½- —
Hydride, powd., dms., works lb. 14.00 - —
Hydroxide, monohydrate, dms., c.l., t.l., dlvd., frt. alld., works lb. .90 - .90½
l.c.l., same basis lb. .91½- .96
Manganite, dms., works lb. .95 - 1.15
Nitrate, tech., dms., 100-lb. lots. lb. 1.25 - —
Salicylate, dms lb. 1.60 - 1.70
Silicate, dms., works lb. 1.10 - 1.30
Sulfate, dms., c.l., works lb. .47½- —
ton lots, works lb. .48½- —
less-ton lots, works lb. .53½- —
Sulfate, dms., 100-lb. lots lb. 1.05 - 1.45
Titanate, dms., works lb. 1.15 - 1.35
Lithopone, ord., bgs., c.l., dlvd. lb. .07½- —
t.c.l., dlvd lb. .08¼- .08½
titanated (high-strength), bgs., c.l., dlvd. lb. .10 - —
t.c.l., dlvd lb. .11 - —

Lithopone prices, Pacific Coast, 1c. per lb. higher.

Lobelia herb, bls lb. .75 - —
Lobeline sulfate, bots., works oz. 29.50 -33.50
Logwood extract, cryst., No. 1, bbls., l.c.l. lb. .41 - —
No. 2, bbls. l.c.l. lb. .39 - —
liq., No. 1, bbls., l.c.l. lb. .20 - —
No. 2, bbls. l.c.l. lb. .19 - —
No. 3, bbls. l.c.l. lb. .18½- —
solid, No. 1, boxes, l.c.l. lb. .35 - —
Lycopodium, cs. lb. 2.00 - 2.25
dl-Lysine hydrochloride, bots. kilo 140.00 -150.00

M

Mace, Siauw, siftings, bls lb. 1.45 - 1.70
West Indian, No. 1, bls lb. 1.60 - —
Magnesia, calcined, tech., bgs., ctns., works lb. .25¼- .26
Syn. rubber grade, light, bgs., c.l., works lb. .29¼- —
l.c.l., works lb. .30 - —
extra light, works lb. .29¼- .30
USP, light, ctns lb. .35 - .36
heavy, bbls lb. .45 - .52
Magnesite, chemical grade, calcined, powd., bgs., c.l., works, frt. equald ton.92.50 - —
dead-burnt, standard grain, bulk, c.l., Chewalah, Wash. ton.38.00 - —
Magnesium bromide, jars lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald. lb. .10½- —
l.c.l., frt. equald lb. .12 - .13
truckloads, frt. equald. lb. .11 - —
USP, bgs., c.l., frt. equald. lb. .12½- —
t.l., frt. equald lb. .13 - —
l.c.l., frt. equald lb. .14 - .15

Above prices are quoted f.o.b. works, freight equalized with metropolitan New York and competitive producing points.

Chloride, anhyd., 92% flake or pebble, dms., c.l., works. lb. .12¾- —
l.c.l., same basis lb. .14 - .15
hydrous, 99% flake, bgs., c.l., works. ton.50.00 - —
l.c.l., bgs. ton.55.00 -105.00
Gluconate, dms., cns lb. 1.30 - 1.37
Glycerophospnate, dms., works lb. 5.40 - 5.50
Hydroxide, NF, medicinal, bbls., dms., kgs. lb. .26½- .30
Metal, 99.8% ingots, cs., works lb. .28½- .297
sticks, cs., works, frt. alld. on carlots lb. .49 - —
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works lb. 1.00 - 1.03
Phosphate, tribasic, NF, bbls. lb. .75 - —
Silicate (see Talc).
Silicofluoride, bbls., works lb. .09 - .10
Sulfate, tech., bgs., c.l., works. 100 lbs. 2.15 - —
l.c.l., works 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works. 100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal 100 lbs. 3.10 - —
smaller lots 100 lbs. 3.35 - —
Trisilicate, USP, dms., 5,000-lb. lots lb. .38 - —
1,000-lb. lots lb. .40 - —
100-lb. lots lb. .45 - —

Bulky and super grades of magnesium trisilicate, 7c. per lb. higher.

Malathion, dms., c.l., works lb. .94 - —
l.c.l., works lb. .96 - .98
Maleic anhydride, dms., c.l., dlvd. E. lb. .27 - —
l.c.l., dlvd E lb. .28 - —
tanks, same basis lb. .26 - —

Prices on maleic anhydride W. of Rockies, 1½c. higher.

Mandrake root, bls lb. .38 - —
Manganese acetate, bbls., dlvd. lb. .35 - —
Arsenate, bgs lb. .16 - —
Borate, tech., fib. dms lb. .25 - —
Carbonate, bbls., works lb. .22 - —
Chloride, anhyd., dms., works lb. .25½- —
Dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, burlap paper lined, bgs., gross for net, works ton.91.50 - —
paper bgs., works ton.88.00 - —
dms., works ton.94.00 - —

Prices for manganese dioxide in 10,000 to 40,000-lb. lots $3 per ton higher.

Manganese gluconate, dms. lb. 1.79 - 1.93
Glycerophosphate, NF, fib dms lb. 4.70 - 4.80
Hydrate, bbls., dlvd lb. .36 - —
Hypophosphite, NF, dms lb. 3.52 - —
Linoleate, liq., 4.35% Mn., dms. lb. .32½- —
solid, precip., 8.2% Mn, bbls. lb. .37½- —
Naphthenate, liq., 6% Mn., dms., frt. alld lb. .27 - —
Resinate, fused, 3½% Mn, dms. lb. .24 - —
precip., 6½-7% Mn, dms lb. .28 - —
Sulfate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E ton.80.50 - —
l.c.l., dlvd. S. E ton.87.50 - —
Tallate, 6% dms lb. .24 - —
Mangrove bark, E. African, 38% tannin, c.l., ex dock ton.71.00 - —
So. American 30% tannin, c.l., tannin, c.l., ex dock ton.71.00 - —
Mannitol, coml., fib. dms., c.l., works lb. .60 - —
single dm., works lb. .65 - —
ton-lots, works lb. .62 - —
MBT (see 2-Mercaptobenzothiazole).
MBTS (see Mercaptobenzothiazyl disulfide).
Melamine, bgs., ton lots, works lb. .33 - —
500 to 2,000-lb. lots, works lb. .33½- —
smaller lots, works lb. .38½- —
Menadione, USP, bots. gram. .044 - .05
Menthol, nat., USP, Brazilian, cs. lb. 9.00 - —
syn., USP, racemic, cns lb. 5.45 - —
Menthyl salicylate, tins lb. 4.00 - 4.25
2-Mercaptobenzothiazole, bgs., fib. dms. ton lots, works frt. alld. lb. .40 - —
less ton lots, same basis lb. .42 - —
Mercaptobenzothiazyl disulfide, bgs., fib. dms., ton-lots, works, frt. alld. lb. .50 - —
less ton lots, same basis lb. .52 - —
Mercuric chloride, NF, cryst., dms., 50-lb. lots or more lb. 4.98 - —
gran. or powd., dms., 50-lb. lots or more lb. 4.78 - —
Cyanide, NF VIII, powd., fib. dms. lb. 6.84 - —
Iodide, red, NF, fib. dms lb. 7.72 - —
Oxide, red, NF, powd., fib. dms. lb. 5.90 - 6.01
yellow, tech. (see Yellow, mercury oxide).
USP, fib. dms lb. 6.14 - —
Mercurous chloride (see Calomel).
Iodide, yellow, NF lb. 7.72 - —
Mercury, ammoniated (see White precipitate, USP)
Metal, 76 lb. per flask, net-flask 270.00 -272.00
Mesityl oxide, dms., c.l., dlvd. lb. .1350- —
l.c.l., dlvd. lb. .1450- —
tanks, dlvd. lb. .1150- —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Choloraniline)
Metanitroaniline (see m-Nitroaniline)
Metanitroparatoluidine (see m-Nitro-p-toluidine).
Metaphenylenediamine (see m-Phenylenediamine)
Metatoluidine (see m-Toluidine)
Metatolylenediamine (see 2,4-tolylenediamine).
Methanol, nat., denaturing grade, tanks, frt. alld gal. .70 - —

Prices on natural methanol W. of Miss., 3c. higher.

syn., Zone 1, dms., c.l., dlvd., or truckload min., frt. alld. gal. .45 - —
l.c.l., same basis gal. .51 - —
tankwagon, 2,000-4,000-gal. lots, dlvd. Metropolitan areas. gal. .33 - —

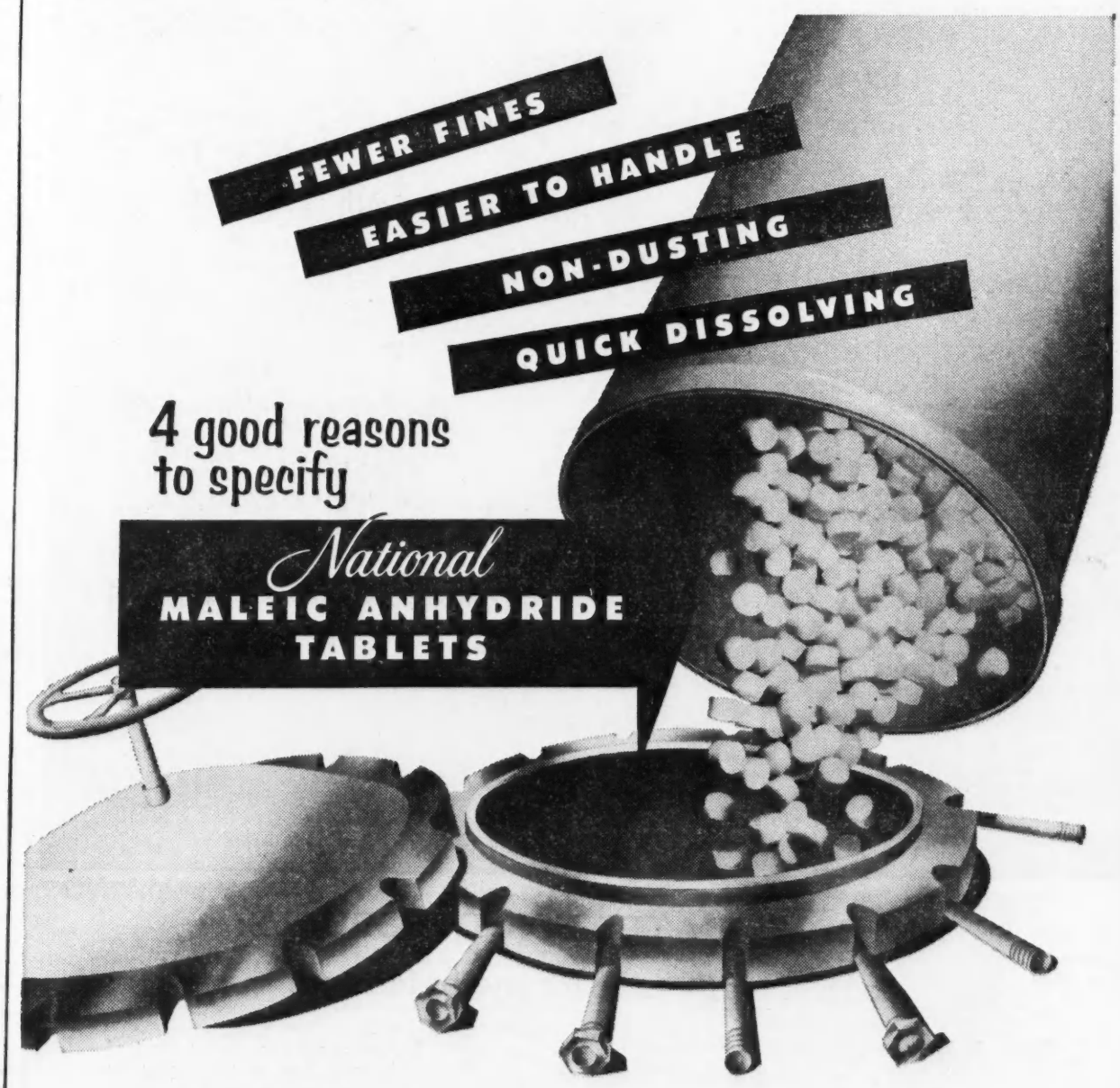
Lime Salts—Methyl Abietate

Methanol, syn., tanks, 4,000 gal., man., frt. alld. or dlvd. gal. .30 - —
4,000 gal., min., works, Carteret, Camden, N. J. gal. .27½- —
Zone 2, dms., c.l., or truckload min., frt. alld. or dlvd gal. .48 - —
l.c.l., same basis gal. .54 - —
tankwagon, 2,000-4,000-gal. lots, min., dlvd. Metropolitan areas gal. .36 - —
tanks, 4,000 gal. man., frt. alld. or dlvd gal. .33 - —

Synthetic methanol zones are:—Zone 1 is all continental U. S. E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of U. S. west of above state boundaries, comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.

Methenamine (see Hexamethylenetretramine).
dl-Methionine, fib. dms., frt. alld. 50-lb. or more lb. 3.50 - —
feed grade, 98%, fib. dms., same basis lb. 2.65 - —
Methoxychlor, 50% wettable powder, dealers, dms. cs. frt. alld. lb. .61 - .64
Methyl abietate, non-ret. dms., c.l., dlvd. zone 1 up to. .20½- —
l.c.l., same basis lb. .21 - —
hydrogenated, non-ret. dms., c.l., dlvd. Zone 1 lb. .21 - —
l.c.l., same basis lb. .21½- —

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.



4 good reasons to specify

National
MALEIC ANHYDRIDE TABLETS

These are the solid reasons why National Maleic Anhydride Tablets are setting the new standard of excellence for the industry.

Qualitative screen-analysis proves these tablets have up to 90% fewer fines "as delivered". Quick dissolving, uniform, easier-to-handle National Maleic Anhydride Tablets are the best value your money can buy. And there's no price premium on this premium product.

You can cut inventory, too. Our modern new plant on the Ohio River at Moundsville, W. Va. makes swift delivery by rail, truck or inland waterway. We'll be pleased to send you samples, specifications and prices.

Allied Chemical

NATIONAL ANILINE DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET, NEW YORK 6, N. Y.

Boston Providence Philadelphia Chicago San Francisco
Portland, Ore. Greensboro Charlotte Richmond Atlanta
Los Angeles Columbus, Ga. New Orleans Chattanooga Toronto

Methyl Acetone—Nicotine Sulfate

Methyl acetone, nat., dms., l.c.l., E. of Miss., frt. alld. gal. .62½- —
syn., dms., c.l., frt. alld. E. gal. .57 • —
l.c.l., frt. alld. E..... gal. .63 • —
tanks, frt. alld. E..... gal. .45 • —

Synthetic methyl acetone E. territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory all states west of those four.

Acrylate, dms., c.l., t.l., dlvd. lb. .43½- —
l.t.l., dlvd. ..... lb. .44½- —
tanks, dlvd ..... lb. .41¾- —
Alcohol (see Methanol).
Amyl acetate, dms., c.l., dlvd. E lb. .15 • —
l.c.l., dlvd. E ..... lb. .16 • —
tanks, dlvd. E ..... lb. .13 • —
Ketone, dms., works ..... lb. 1.05 • —
Anthranilate, cns. ..... lb. 2.50 • 2.65
Benzoate, cns., dms ..... lb. .53 • .65
Bromide, jobbers, cyls., various sizes, frt. alld. E lb. .47 • .61
Cellulose, special vis., (1,500-4,000 cps.) 50-lb. bgs., c.l., works. lb. .78 • —
2,000-lb. lots and more, same basis lb. .65 • —
smaller lots, frt. alld. on 100 lbs lb. .89 • 1.00
standard vis., 15,400 cps.), 50-lb., c.l., alld. lb. .66 • —
2,000-lb. lots and more, same basis lb. .72 • —
smaller lots, frt. alld. on 100 lbs lb. .75 • .85

Methyl chloride, indust., cyls., frt. equald. lb. .21 • —
tanks, multi-unit, same basis. lb. .15 • —
single unit, same basis lb. .11½- —
refrigerator mfrs., cyls., dlvd. lb. .45 • —
other consumers or service men, cyls., dlvd. lb. .62 • —
Cinnamate, cns. ..... lb. 1.43 • 1.80
Cyclohexanol, dms., c.l., works. lb. .35½- —
l.c.l., works ..... lb. .36 • —
tanks, works ..... lb. .34 • —
Ethyl ketone, dms., c.l., dlvd. lb. .13 • —
l.c.l., dlvd ..... lb. .14 • —
tanks, dlvd. ..... lb. .11 • —
Formate, refd., dms. ..... lb. .35 • .40
tech., non-ref. dms., any quantity, works lb. .10 • —
Heptin carbonate, bots. ..... lb. 33.00 -42.00
p Hydroxybenzoate, fib. dms .. lb. 1.90 • 2.00
Ionone, standard, cns., dms. ... lb. 5.55 • 5.85
Isobutyl carbinol, dms., c.l., dlvd. lb. .15 • —
l.c.l., dlvd ..... lb. .16 • —
tanks, dlvd ..... lb. .13 • —
Ketone, dms., c.l., dlvd. ..... lb. .15 • —
l.c.l., dlvd. ..... lb. .16 • —
tanks, dlvd. ..... lb. .13 • —
Methacrylate, dms., c.l., t.l. frt. equald with Belle, W. V. lb. .36½- —
smaller lots, same basis lb. .37 • —
tanks, same basis ..... lb. .35 • —
Naphthyl ketone, cryst., cns lb. 3.60 • 4.30
Parahydroxybenzoate (see Methyl p-Hydroxybenzoate).
Roseaniline, chloride, NF fib. dms., 5-lb. lots. lb. 5.64 • —

Methyl salicylate, USP, cns., 500-lb. lots. lb. .53 • —
Testosterone, USP, 100-gram bots. gram. .68 • —
2-Methylbenyzlamine, dms., l.c.l., works. lb. 1.25 • —
2-Methyl-5-ethyl pyridine dms., c.l., works. lb. .47½- —
l.c.l., works ..... lb. .48 • —
tanks, works ..... lb. .46 • —
Methylene blue, fib. dms., 200-lb. lots, frt. adjusted .... lb. 3.25 • 3.60
smaller lots, same basis lb. 3.40 • 3.60
Chloride, tech., dms., c.l., dlvd. E lb. .13½- —
l.c.l., same basis ..... lb. .14½- —
tanks, same basis ..... lb. .12½- —
b-Methylnaphthalene, 32°C. m.p., dms., works. lb. .90 • —
Methylparaben (see Methyl p-hydroxybenzoate).
Methylpentanediol (see Hexyleneglycol).
Methylphenylpyrazolone (see 1-Phenyl-3-methylpyrazolone-5).
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint plastic, 100 mesh, bgs., c.l., works. lb. .04¼- —
roofing, 20 to 80 mesh, works. lb. .03 • .04
wet-grd., biotite, bgs., c.l., works, frt. alld. E lb. .06¼- —
l.c.l., ex-whse. or frt. alld. E. lb. .07 • —
paint or lacq., bgs., c.l., works, frt. alld. lb. .07¾- —
l.c.l., ex-whse. or frt. alld. E lb. .08½- —
rubber, bgs., c.l., works, frt. alld. E lb. .07½- —
l.c.l., ex-whse. or frt. alld. E. lb. .08½- —
wallpaper, bgs., c.l., works, frt. alld., E. lb. .07¾- —
l.c.l., ex-whse. or frt. alld. E. lb. .08¼- —

Mica, wet-ground, white, extra, fine, bgs., c.l., works, frt. alld. E. lb. .07¾- —
l.c.l., ex-whse. or frt. alld. E. lb. .08½- —

Mica, wet-grd. W. of Miss R. ½c. higher. W of Rockies, 1c. higher.

Milk powder, non-fat, roller, bgs., c.l. lb. .12 • .1535
spray, bgs., c.l. ..... lb. .14 • .1610
whole, roller, bgs., c.l. ..... lb. No prices.
spray, bgs., c.l. ..... lb. .27 • .31
Sugar (see Lactose).
Mineral spirits (see Petroleum mineral spirits).
Molasses, blackstrap feed grade, tanks, New Orleans gal. .10 • .10½
New York ..... gal. .12 • —
Molybdenum (metal), powd., 80 or 200 mesh, cns., works kilo. 8.80 • —
Trioxide, pure, kgs., works ... lb. 1.05 • —
tech., kgs., works, basis Mo. content lb. 1.25 • —
Monobutylamine, dms., c.l., E. of Rockies lb. .55 • —
l.c.l., same basis ..... lb. .56 • —
tanks, same basis lb. .53 • —
Monochlorobenzene dms. c.l. frt. alld. or dlvd. E lb. .10 • —
l.c.l., same basis ..... lb. .11 • —
tanks, same basis ..... lb. .08½- —
Monoethanolamine, dms., c.l., dlvd. E lb. .27 • —
l.c.l., same basis ..... lb. .28 • —
tanks, same basis ..... lb. .25 • —
Monoethylalphanaphthylamine (see N-Ethyl-a-naphthylamine).
Monoethylamine, 70% contained amine, dms., c.l., dlvd E lb. .33 • —
l.c.l., dlvd. E lb. .34 • —
tanks, dlvd. E lb. .31 • —
40% soln., dms., c.l., frt. equald. 100% basis lb. .37 • —
l.c.l., frt. equald, 100% basis. lb. .37½- —
tanks, frt. equald., 100% basis. lb. .31 • —
Monoethylaniline (see N-Ethylaniline).
Monoethylortnotoluidin (see N-Ethyl-o-toluidine).
Monoisopropanolamine, dms., c.l., dlvd. E lb. .27 • —
l.c.l., same basis ..... lb. .28 • —
tanks, same basis ..... lb. .25 • —
Monoisopropylamine, dms., c.l., dlvd. lb. .32 • —
l.c.l., same basis ..... lb. .33 • —
tanks, same basis ..... lb. .30 • —
Monomethylamine, 30-35% soln., dms., c.l., frt. equald., 100% basis. lb. .40 • —
l.c.l., frt. equald, 100% basis. lb. .40½- —
tanks, frt. equald, 100% basis. lb. .31 • —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Glutamate (see Sodium glutamate monobasic).
Phosphate (see Sodium phosphate monobasic).
Mono-tertiary-butylmetacresol (see 6-tert-Butyl m-cresol).
Morphine, cns ..... oz. 12.40 -12.60
Acetate, anhyd., cns ..... oz. 9.95 -10.00
Hydrobromide, cns ..... oz. 9.90 - 9.95
Hydrochloride, NF, cns ..... oz. 9.90 - 9.95
Sulfate, USP, cns ..... oz. 9.90 -10.05
Morpholine dms., c.l., dlvd. E lb. .54¾- —
l.c.l. dlvd. E ..... lb. .55¾- —
tanks, dlvd. E ..... lb. .52¾- —
Musk, syn., ambrette, 100-lb. lots, fib. dms. lb. 5.15 • —
25-lb. lots, cns lb. 5.20 • —
5-lb. lots, cns lb. 5.30 • —
ketone, 100-lb. lots, fib. dms. lb. 5.30 • —
25-lb. lots, cns lb. 5.35 • —
5-lb. lots, cns lb. 5.45 • —
xylol, 100-lb. lots, fib. dms lb. 1.40 • —
25-lb. lots, cns lb. 1.45 • —
5-lb. lots, cns lb. 1.50 • —
Mustard seed, Danish, yellow, bgs lb. .12 • .12¼
Dutch, yellow, bgs ..... lb. No prices.
English, yellow, bgs ..... lb. .12½- 14
Montana, oriental, bgs. ... lb. No prices.
yellow, bgs ..... lb. No prices.
Myrobalans, J-1, assorted, bgs., ex dock. ton. 66.00 • —
crushed, bgs., ex dock ..... ton. 78.00 -80.00
Bombay, bgs., ex dock ..... ton. 60.00 • —
extract, Indian, solid, 55% tannin, bgs., ex dock, plus duty. lb. .07¾- —

N

Naphtha, painters (see Petroleum naphtha V. M. & P.).
Solvent (see S).
Naphthalene, crude, dom., 74° tanks, frt. equald lb. .06¼- —
78°, bgs., c.l., game basis lb. .06¾- .07¼
l.c.l., same basis ..... lb. .07 - .07¾
tanks, same basis ..... lb. .06¼- .07
imp., 78°, large lots ..... lb. .06¾ Nom.
refd., dms., indust., chipped or crushed, bgs., frt. equald. lb. .11½- .12¼
flake, bgs., same basis .... lb. .12½- .13¼
tanks, same basis ..... lb. .10¾- .11¾
balls, flakes, wholesalers, jobbers, bbls., c.l., same basis. lb. .13¾- —
cs., 50 lbs., c.l., same basis lb. .14 • —
1-lb. pkgs. c.l., same basis lb. .16¼- —
a-Naphthol, bbls., frt. alld ..... lb. 1.00 • —
b-Naphthol, tech., bbls., c.l., works. lb. .34½- —
l.c.l., works ..... lb. .36½- —
Benzoate, fib. dms., works ..... lb. 3.00 • —
custom contract, works .... lb. 1.65 • —
Salicylate, dms. ..... lb. 5.00 • —
Sulfate, cns ..... lb. 35.00 • —
a-Naphthylamine, bbls., frt. alld lb .50 • —
b-Naphthylamine, tech., flake, bbls., works lb. 1.60 • —
Neocinchophen, USP, dms., frt. adjusted lb. 7.00 • 8.00
Neomycin, fib. dms., 100-kilo lots, basis, activity gram. .60 • —
1-kilo lots, basis, activity gram. 1.20 • —
Nerolin, cns ..... lb. 2.45 • 2.65
Niacin (see Acid, nicotinic)
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., dlvd. ..... lb. .77 • .90¼
Carbonate, bbls., dlvd. ..... lb. .73¾- .81¾
Chloride, bbls., dlvd ..... lb. .38½- .46½
Formate, bbls., ton lots, frt. alld. lb. .68 • .69
Metal, electro cathodes, cs., works. lb. .64½- —
Nitrate, bbls., works ..... lb. .37 • .38
Oxide, black, bbls ..... lb. .76 • —
green, bbls ..... lb. .76 • —
Sulfate, bgs., c.l., dlvd ..... lb. .30¼- —
l.c.l., dlvd ..... lb. .31¼- .38¼
Nicotinamide, USP, dms., frt. adjusted kilo. 12.00 -12.30
Hydrochloride, dms., frt. adjusted. kilo. 11.50 -11.80
Nicotine sulfate, 40%, dealers, 50-lb. dms., frt. alld ..... lb. 1.20 • —
manufacturers, 500-lb. dms. frt. alld. lb. 1.03 • —

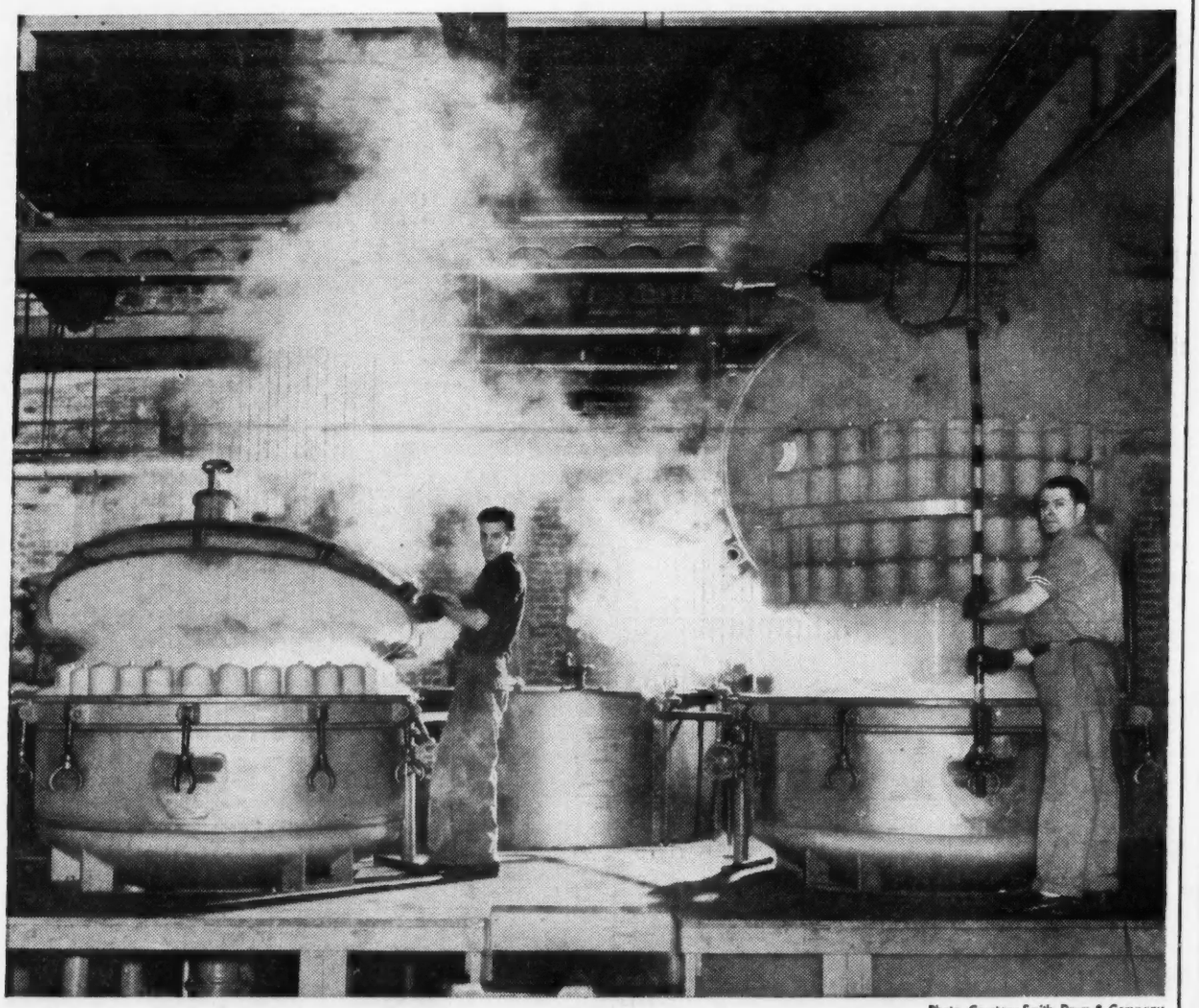


Photo: Courtesy Smith, Drum & Company

INTERMEDIATES FOR DYESTUFFS:

one of many uses for methylamines

Rohm & Haas monomethylamine, dimethylamine, and trimethylamine are good, low-cost sources of basic organic nitrogen. These amines can be used as intermediates for many different products, including dyestuffs, pesticides, quaternary disinfectants, pharmaceuticals, photographic developers, rubber-vulcanization accelerators, and surfactants.

All three amines are available in both aqueous and anhydrous form in drums, tankcars, or cylinders. Volume production in two separate plants provides continuous availability. The high quality and purity of Rohm & Haas methylamines reflect more than 20 years' experience in their production.

Write to Department SP for authoritative information to assist you in research, process development, or plant design.

CHEMICALS FOR INDUSTRY

ROHM & HAAS COMPANY

WASHINGTON SQUARE, PHILADELPHIA 5, PA.

Representatives in principal foreign countries

Niger seed, bgs. ..... lb. .10½- .11
Nikethamide, cbys. ..... lb. 5.00 - —
m-Nitroaniline, dms., frt. alld. lb. 1.05 - —
o-Nitroaniline, flaked, dms. ..... lb. .54 - .57
powd., dms. ..... lb. .60 - —
p-Nitroaniline, dms., l.c.l., frt. alld. lb. .51½- —
Nitrobenzene, dbl. dist., dms., c.l., frt. alld. lb. .12 - —
l.c.l., frt. alld. ..... lb. .13 - —
tanks, frt. alld. ..... lb. .11 - —
o-Nitrobiphenyl, tech., dms., c.l., works ..... lb. .14½- —
l.c.l., works ..... lb. .15 - —
tanks, works ..... lb. .13 - —
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works ..... lb. .34 - —
l.c.l., same basis ..... lb. .35 - .37
18-25 cps., bbls., c.l., same basis ..... lb. .36 - —
l.c.l., same basis ..... lb. .37 - .39
250-400, 600-1,000 secs., bbls., c.l., same basis ..... lb. .39 - —
l.c.l., same basis ..... lb. .40 - .42
spirit-soluble, 30-35 cps., ¼, ½, sec., bbls., c.l., same basis ..... lb. .41 - —
l.c.l., same basis ..... lb. .42 - .44
5-6 cps., 40-60 secs., bbls., c.l., same basis ..... lb. .40 - —
l.c.l., same basis ..... lb. .41 - .43

Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.

o-Nitrochlorobenzene, dms., c.l. ..... lb. .20 - —
l.c.l., same basis ..... lb. .21 - —
tanks, same basis ..... lb. .18 - —
p-Nitrochlorobenzene, dms. ..... lb. .26 - .27
2-Nitro-4-chlorophenol, dms. ..... lb. .75 - —
Nitroethane, dms., dlvd. E of Rockies ..... lb. .25 - —
Nitrogen solution, 37% N, tanks, frt. equald., per ton of product basis ..... ton. 46.50 - —
40.8% N, tanks, same basis ..... ton. 31.15 - —
Nitrogenous process tankage, bulk, works ..... unit-ton. 4.10 - 5.10
Sewage sludge, bulk, works unit-ton. 2.75 + .50
Nitromethane, dms., l.c.l., dlvd. E. of Rockies ..... lb. .25 - —
a-Nitronaphthalene, bbls, frt. alld. lb. .41 - —
Nitropropane 1, dms., dlvd. E. of Rockies ..... lb. .23¼- —
2, dms., dlvd. E. of Rockies ..... lb. .25 - —
tanks, works ..... lb. .22¾- —
o-Nitrophenol, dms., works, frt. equald ..... lb. .94 - —
p-Nitrophenol, dms., works, frt. equald ..... lb. .50 - —
o-Nitrotoluene, dms., c.l., frt. alld. lb. .10 - —
l.c.l., frt. alld. ..... lb. .11 - —
tanks, frt. alld. ..... lb. .09 - —
p-Nitrotoluene, dms., works ..... lb. .33 - .36
m-Nitro-p-toluidine, dms ..... lb. 1.59 - —
Nitrous ether, conc., bots 100-lb. lots ..... lb. 1.28 - 1.35
Nonyl phenol, dms., c.l., frt. alld. lb. .26 - —
l.c.l., frt. alld. ..... lb. .27 - —
tanks, frt. alld. ..... lb. .24 - —
Nutgalls, Aleppo, bgs. ..... lb. .36 - .38
Chinese, bgs. ..... lb. No prices.
Nutmeg, East Indian, bgs. ..... lb. .42 - .44
West Indian, bgs. ..... lb. .37 - .37½
Nux vomica, bls ..... lb. .10 - .12
powd., bbls., bxs. ..... lb. .15 - .17

O

Octane, indust., tanks, Bayonne, N. J. gal. .19 - —
Baytown, Tex. ..... gal. .15¾- —
Borger, Tex. ..... gal. .15¾- —
1-Octanol, tech., dms., c.l., dlvd. lb. .35 - —
l.c.l., dlvd. ..... lb. .37 - —
tanks, dlvd. ..... lb. .32½- —
Octyl phenol, bgs., c.l., works ..... lb. .23¼- —
l.c.l., works ..... lb. .23¾- —
tanks, works ..... lb. .22½- —

Drum prices for octyl phenol are 1c. higher.

(Essential oils prices listed below are f.o.b. New York, with differences between high and low quotations due to differences in quantity, quality or in individual suppliers' views.)

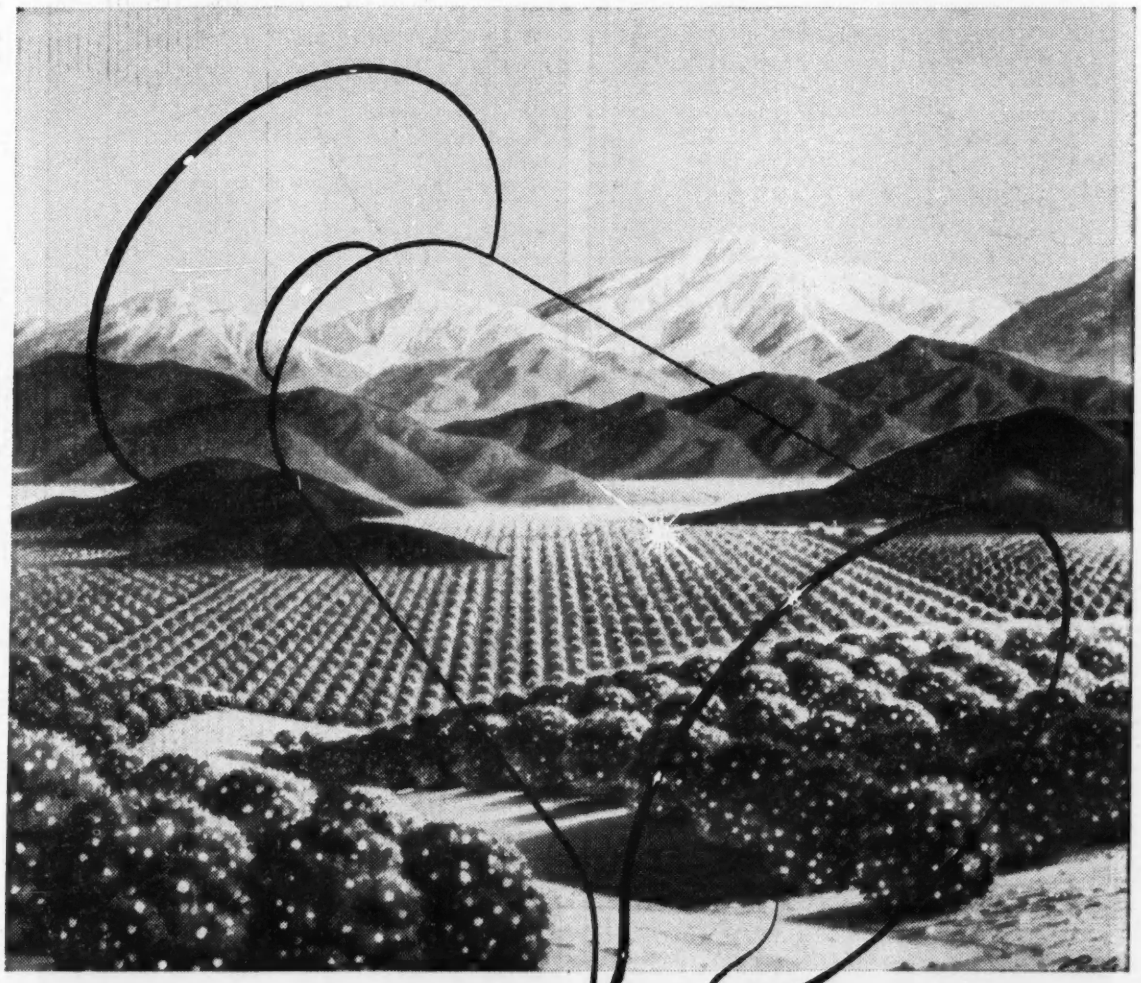
Oil, abies, siberica, cns. ..... lb. 3.00 - 3.50
Almond, artif., bitter (see Benzaldehyde).
nat., bitter, F.P.A., bots. ..... lb. 3.00 - 3.75
NF, bots. ..... lb. 3.25 - 3.75
sweet, USP, dms., cns. ..... lb. .65 - .80
Allspice (see Oil, pimento).
Amyris, dms. ..... lb. 1.40 - 1.95
Angelica root, bots. ..... lb. 66.00 -100.00
seed, bots ..... lb. 56.00 -95.00
Aniline (see A).
Anise, USP, dms ..... lb. 3.25 - 4.00
Apricot, kernel, USP, dms. ..... lb. .38 - .45
Avocado, cns. ..... lb. 3.25 - —
Babassu, crude, tanks ..... lb. .15¼- —
Bay, NF, Puerto Rican, 50-55%, cns ..... lb. 1.85 - 2.20
55-60%, cns. ..... lb. 2.10 - 2.50
West Indian, 50-55%, cns., dms., lb. 1.85 - 2.40
Bergamot, nat., NF, Italian, cns. lb. 9.25 -11.00
Birchtar, crude, cns. ..... lb. 1.50 - 1.90
rectified, NF, cns. ..... lb. 1.75 - —
Bois de rose, Brazil, dms. ..... lb. 4.70 - 5.60
Mexican (see Oil lignaloe wood).
Bone, dms., works ..... lb. .65 - .70
Cajeput, native, cns. ..... lb. 1.75 - 2.10
redist., USP, cns. ..... lb. 2.25 - 3.00
Calamus, bots ..... lb. 12.00 -20.00
Camphor, sassafrassy, dms. ..... lb. .40 - .60
white, dms. ..... lb. .35 - .50
Cananga, native, cns. ..... lb. 7.85 -10.25
rectified, cns. ..... lb. 12.50 -14.75
Caraway, NF, cns ..... lb. 3.75 - 5.00
Capsicum (see Capsicum oleoresin).
Cardamom, NF, bots. ..... lb. 35.00 -50.00
Cassia, USP (see Oil, cinnamon USP).
Castor, blown, dms., c.l. ..... lb. .1950- —
l.c.l. ..... lb. .2000- —
dehydrated, bodied, dms., c.l. lb. .2160- —
l.c.l. ..... lb. .2210- —
tanks ..... lb. No prices.
unbodied, dms., c.l. ..... lb. .2010- —
l.c.l. ..... lb. .2060- —
tanks ..... lb. No prices.
hydrogenated, bgs., c.l., dlvd lb. .20½- —
l.c.l. ..... lb. .24 - —
No. 3, tech., dms., c.l. ..... lb. .1475- —
l.c.l. ..... lb. .1525- —
tanks ..... lb. No prices.
No. 1, Brazilian, tanks ..... lb. .13½- .13¾
sulfonated, 50%, dms., l.c.l. lb. .11½- .12
75%, dms., l.c.l. ..... lb. .14½- .15
USP, dms., c.l. ..... lb. .1700- —
l.c.l. ..... lb. .1750- —
tanks ..... lb. No prices.
refd. and deodorized, dms., c.l. lb. .1850- —
l.c.l. ..... lb. .1900- —
tanks ..... lb. No prices.
Cedarleaf, USP XII, cns., dms. lb. 2.90 - 3.50
Cedarwood, cns., dms. ..... lb. .70 - 1.20
Celery seed, bots ..... lb. 12.50 -20.00
Oil, chamomile, blue, Hungarian, bots ..... lb. 90.00 -180.00
Chenopodium, NF, cns. ..... lb. 4.00 - 5.00
Chinawood (see Oil, tung).
Cinnamon bark, bots. ..... lb. 25.00 -65.00
leaf, crude, dms. ..... lb. 1.30 - 2.00
USP, cns., dms., (Cassia) ..... lb. No stocks.
Citronella, Ceylon, cns., dms. lb. 1.10 - 1.70
Java, true, dms. ..... lb. 1.75 - 2.00
Java-type, cns ..... lb. 1.80 - 2.30
Clove, bud, USP, cns., dms. ..... lb. 3.15 - 4.00
leaf, crude, dms ..... lb. 1.30 - 2.00
Coconut, crude, tanks, N. Y. ..... lb. .12⅝- —
Pac. Coast ..... lb. .11⅝- —
refd., Cochin type, tax incl. ret. dms., l.c.l. lb. .19½- —
deodorized, tax incl., non ret. dms., c.l. lb. .21½- —
Cod, Newfoundland, dms. ..... lb. .11 - —
Codliver, USP, dms. ..... gal. 1.50 - 1.60
Copaiba, cns ..... lb. 1.50 - 2.50
Coriander, USP, bots ..... lb. 11.75 -17.50
Corn, crude, tanks, works ..... lb. .14 - —
foots (soapstock), acid 95%, tanks, N. Y. lb. .04¾- —
refd., salad, dms. ..... lb. .19 - .19¼
tanks ..... lb. .17½- —
Costus, bots ..... lb. 8.00 - —
Cottonseed, crude, tanks, South East ..... lb. .13¼ Nom.
Valley ..... lb. .13⅛- —
Texas ..... lb. .12⅝- .12¾
foots (soapstock), acid 95%, tanks, N. Y. lb. .04¾- —
raw, 50%, tanks, same basis. lb. .02¼ Nom.
refd., salad, dms. ..... lb. .19⅛- .19⅝
tanks ..... lb. .17⅝- —
Creosote (see Creosote, coaltar).
Crude (see Petroleum, crude)
Cubeb, cns. ..... lb. 4.25 - 6.25
Cumin, bots., cns. ..... lb. 4.15 - 5.75
Cypress, bots. ..... lb. 5.30 - —
Oil, degras (see D).
Dillseed, bots. ..... lb. 2.80 - 4.25
Dillweed, dom., bots., dms. ..... lb. 3.50 - 5.00
Dip (see D).
Erigeron, cns. ..... lb. 5.50 - 7.50
Eucalyptus, NF, rectified, 70-80%, dms. ..... lb. .70 - 1.00
80-90%, dms. ..... lb. .85 - 1.25
Fennel, sweet, USP, cns. ..... lb. 2.30 - 3.25
Fir, Canada, cns. ..... lb. 2.25 - 3.00
Fish, refd., alkali, dms. ..... lb. .1300- .1350
kettle-bodied, dms. ..... lb. .1530- .1580
light-pressed, dms. ..... lb. .1150- .1200
tanks ..... lb. .1000- —
Fishliver, crude, for feeds or concentrating, 4,000 to 12,000 A units per gram, dms., 1,000,000 units. .08 - .09
10,000 to 20,000 A units per gram, dms., 1,000,000 units. .09 - .10
25,000 to 35,000 A units per gram, dms., 1,000,000 units. .09 - .10
40,000 to 55,000 A units per gram, dms., 1,000,000 units .10½- .11
100,000 A units per gram., dms 1,000,000 units. .12 - .14
200,000 A units per gram., dms 1,000,000 units. .12 - .14
300,000 A units per gram., dms., 1,000,000 units. .12 - .14½
400,000 A units per gram, dms., 1,000,000 units. .12 - .14½
500,000 A units per gram., dms 1,000,000 units. .12 - .14½

Prices above are based on the USP XIV method of conversion, Morton Stubbs Corrected E x 1900.

Fusel (see F)
Garlic, pure, bots. ..... oz. 5.75 - 9.50

Niger Seed—Oil, Mandarin

Oil, gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns. ..... lb. 11.50 -14.00
Bourbon, cns. ..... lb. 11.75 -14.50
Turkish (see Oil palmarosa)
Ginger, dist., bots. ..... lb. 16.25 -20.00
Grapefruit, dms. ..... lb 2.50 3.25
Grease, No. 1, dms. ..... lb. .14¾- .16½
extra, winter, strained, dms. lb. .17½- .19
prime, burning, dms. ..... lb. .18¾- .20¼
Guaiacwood, cns ..... lb 1.40 1.90
Hemlock, cns. ..... lb. 2.10 2.50
Juniper berry, NF, VIII, bots lb 2.75 4.00
twice rectified, bots. ..... lb 3.60 7.00
Tar, NF (see Juniper tar)
Wood, tech., cns ..... lb 42 .65
Lard (see Oil, grease).
Laurel leaf, dms, cns ..... lb 9.75 -12.50
Lavender, flower, USP, French lb. 2.85 - 3.35
Lavender, Flower, USP, French, 30-32% ester, cns ..... lb 3.55 4.60
38-40% ester, cns ..... lb 9.50 -13.20
40-42% ester, cns ..... lb 10.00 -16.50
Spike, Spanish, cns ..... lb 1.85 2.30
Lemon, USP, Calif., cns., dms lb 4.75 - 6.15
Messina, cns. ..... lb. 4.85 - 9.80
terpeneless, bots ..... lb 32.00 -85.00
Lemongrass, cns., dms ..... lb. 1.75 - 2.50
Lignaloe wood, Mex., cns. ..... lb 2.70 - 4.00
Lime, dist., Mexican, cns. ..... lb 3.30 - 4.75
West Indian, cs ..... lb 3.30 - 4.75
expressed, West Indian, cns. lb. 7.00 - 8.00
terpeneless, bots ..... lb 29.50 -100.00
Linseed, raw, dms., c.l., N. Y. lb. .1605- —
tanks, f.o.b. Minneapolis ... lb. .1330- —
New York ..... lb. .1455- —
tankwagon, New York .... lb. .1485- —
Boiled linseed oil, .006c. per lb higher
Mace, dist., cns., dms. ..... lb. 2.75 - 3.60
Mandarin (see Oil, tangerine).



Oranges are not all alike...

There are as many different varieties of oranges as there are apples. They differ in physical appearance, juice character, peel flavor and in the many constituents which make up the component parts of the fruit. Many oranges that may be comparable in some characteristics may differ widely in others and, in some respects, one may be three or four times as potent as the other.

That is why Exchange Brand California Oil of Orange is the standard the world over for orange flavor excellence. You not only get the benefit of Exchange experience, technical skills and vast fruit resources, but Exchange Brand Oil of Orange is made only from California oranges with peel oil that is far richer in flavor strength and more intense in the aromatic constituents which are universally accepted as true orange flavor.

The cost of flavor is so small, why risk the quality of your product for penny economy? Protect its valuable reputation with the consistent quality and distinctive California feature of Exchange Brand Oil of Orange.

Exchange®
OIL OF ORANGE U.S.P.

Sunkist Growers

PRODUCTS DEPARTMENT - ONTARIO, CALIFORNIA • *Produced by* The Exchange Orange Products Co. • Ontario, California
Distributed in the U.S. exclusively by
FRITZSCHE BROTHERS, INC., 76 Ninth Ave., New York 11, N.Y. • DODGE & OLCOTT, INC., 180 Varick St., New York 14, N.Y.

Oil, Menhaden—Paraffin

Oil, menhaden, crude, tanks, works, Atlantic Coast lb. .07½- —
Gulf ports, f.a.s. lb. .08 - —
Mineral, white (see Oil, white mineral).
Mirbane (see Nitrobenzene).
Mustard seed, nat., dms. lb. .18 - —
syn., bots lb. 1.60 - 1.85
Neatsfoot, 15° cold test, dms lb. .33 - .34
20° cold test, dms lb. .32 - .33
30° cold test, dms lb. .30 - .31
Neroli, NF, French, bots lb.85.00 -310.00
Spanish, bots. lb.32.50 -85.00
Nutmeg, USP, dist., East Indian, cns., dms lb. 3.10 - 4.50
West Indian, cns., dms lb. 3.00 - 3.60
Ocotea cymbarum, dms lb. .90 - 1.50
Oiticica, liq., dms lb. .14½- .15
tanks lb. .13¼- .13½
Oleo, extra, dms lb. .14½- .15
Olibanum, bots. lb. 5.50 - 7.65
extra fine, bots lb. 8.00 - —
Olive, edible, Spanish, dms., duty paid gal. 2.30 - 2.40
Tunisian, same basis gal. 2.20 - 2.25
Orange, sweet, dist., cns lb. .50 - .80
expressed, USP, Brazilian, cns., dms lb. No stocks.
Calif., cns., dms. lb. .55 - 1.25
Florida, cns., dms. lb. .50 - 1.25
Messina, cns. lb. 3.85 - 5.85
West Indian, cns., dms lb. 2.50 - 3.65
sesquiterpeneless, bots lb.65.00 -120.00
Origanum, Spanish, cns lb. 1.75 - 2.25
Palm, clarif., dms lb. .13 - .13½
kernel, denat., tanks lb. .12¼- —
Palmarosa, cns. lb. 8.00 - 9.50
Paraffin, pale, 100-110 vis., at 100°F, tanks, East Coast refy gal. .14 - —
Patchouli, dms lb. 8.00 - 9.50

Oil, peach kernel, USP (see Oil apricot kernel).
Peanut, crude, tanks, f.o.b. mills. lb. .17¾ Nom.
refd., dms. lb. .23¼- .23½
tanks lb. .21¼- —
Pennyroyal, USP(imported, cns. lb. 2.50 - 3.50
lb. 2.50 - 3.10
Peppermint, nat., dms lb. 7.25 - 8.65
redist., USP, dms lb. 7.60 - 9.25
Persic, USP (see Oil, apricot kernel).
Petitgrain, South American, cns., dms lb. 3.50 - 4.80
Pimento, berry, NF, dms lb. 4.20 - 8.00
leaf, cns. lb. 2.60 - 3.10
Pine, dest.-dist., dms., l.c.l., works. lb. .11¼- —
ex-whse. lb. .1355- —
steam dist., dms., ex whse., N.Y.C. lb. .163 - —
Pineneedle, Siberian (see Oil, abies siberica).
Rapeseed, tankcars lb. .16 - —
Red (see Acid, oleic).
Rice, bran, clarif., dms., l.c.l. lb. .16 - —
tanks, dlvd. E lb. .14 - —
Rose, nat., Bulgarian, bots oz.43.50 -62.25
Rosemary, Spanish, USP, cns., dms lb. .60 - 1.00
tech., cns., dms lb. .50 - .70
Rue, bots. lb. 2.00 - 2.50
Safflower, dms., c.l., Atl. coast lb. .1910- —
tanks, same basis lb. .1760- —
Sage, clary bots lb.20.00 -25.00
Dalmatian, cns. lb. 4.75 - 6.00
Spanish, cns. lb. 1.15 - 1.40
Sandalwood, NF, cns lb.14.00 -16.50
Sardine, crude, tanks, Pac. coast. lb. .09 Nom.

Oil, sassafras, artif., dms lb. .90 - 1.40
nat., dom., USP, dms lb. 1.75 - 2.10
imp., Brazilian (see Oil ocotea cymbarum),
Savin, cns. lb. 2.75 - —
Savory, cns lb. 4.25 - —
Sesame, refd., dms lb. .36 - .37
Shingle stain, tar distillate, dms., c.l., works gal. .35 - —
l.c.l., works gal. .44 - —
tanks, works gal. .23 - —
Snakeroot, Canada, cns lb.27.50 -31.00
Soybean, crude, tanks, Decatur. lb. .11⅜- —
foots (soapstock), acid, 95%, tanks, N. Y. lb. .05½- —
raw, 50%, tanks, N. Y. lb. .02¼- —
refd., alkali, dms lb. .15⅜- .15⅝
tanks lb. .13⅜- —
clarified, dms. lb. .14⅞- .15⅛
tanks lb. .13⅜- —
salad, dms. lb. .15⅞- .16¼
tanks lb. .14⅜- —
Spearmint, USP, dms lb. 4.25 - 5.30
Sperm, bleached winter, 45° dms. lb. .1625- .1650
tankcars lb. .1450- —
nat., winter, 45°, dms lb. .1525- .1550
tankcars lb. .1350- —
Spruce, cns., dms lb. 2.10 - 2.75
Sweet birch, USP, Nortnern, cns. lb. 4.25 - 9.50
Southern, cns lb. 2.50 - 3.00
Tall, crude, dms., c.l., works lb. .03½- —
tanks, works lb. .02½- —
dist., dms., c.l., works lb. .07½- —
l.c.l., works lb. .07¾- —
tanks, works lb. .06¼- —
refd., dms., c.l., works lb. .06½- .06¾
l.c.l., works lb. .06¾- .07¾
tanks, works lb. .05¼- .05¾
Tallow, acidless, dms lb. .12¼- .14
Tangerine, Floridian, dms lb. 2.00 - 2.80
Tansy, dms. lb. 7.50 - 8.40

Oil, tar acid (See T'a).
Pine, coml., dms., c.l., works lb. .528 - .538
l.c.l., works lb. .601 - —
whse. lb. .712 - —
tanks, works lb. .427 - .438
rectified, NF, dms., incl., l.c.l., works, South lb. .77 - —
whse., N.Y.C. lb. .87 - —
Theobroma (see Cocoa butter).
Thyme, NF, red, cns., dms lb. 1.70 - 3.75
white, cns lb. 1.95 - 4.00
tech., white, cns lb. .40 - 1.85
Tung, dms., c.l., N. Y. lb. .26¾- —
l.c.l., same basis lb. .27 - .27½
tanks, N. Y. lb. .25¼- —
domestic mills lb. .24¼- —
Turkey red (see Oil, castor, sulfonated).
Turpentine, NF, cns., dms. lb. .28 - .45
Vetiver, Bourbon, cns lb.13.25 -17.00
Haitian, cns. lb.11.00 -17.50
Java, cns. lb.22.50 -40.00
Wheat, germ., 5-gal. dms gal.10.00 -13.00
White mineral, tech., 50-65 vis., non-ret. dms., c.l., f.o.b. N. Y. gal. .51½- .54¼
65-75 vis., non-ret., dms., c.l., same basis gal. .52½- .55
l.c.l., same basis gal. .57½- .58¼
80-90 vis., non-ret., dms., c.l., same basis gal. .53¼- .56½
l.c.l., same basis gal. .58½- .59½
125-135 vis., non-ret., dms., c.l., same basis gal. .59½- .62½
l.c.l., same basis gal. .64½- .65½
145-155 vis., non-ret., dms., c.l., same basis gal. .66 - .68½
l.c.l., same basis gal. .71 - .71½
175-185 vis., non-ret., dms., c.l., same basis gal. .69½- .73
l.c.l., same basis gal. .74½- .75
USP, 200-210 vis., non-ret., dms., c.l., same basis gal. .73½- .75
l.c.l., same basis gal. .77½- .78
345-355 vis., non-ret. dms., c.l., same basis gal. .77 - .80
l.c.l., same basis gal. .83 - .85
Wintergreen, USP, nat., Northern, cns lb. 6.35 -10.30
Southern, cns lb. 3.20 -19.50
synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormwood, cns. lb. 5.00 - 6.85
Ylang-ylang, Bourbon, bots. lb.17.00 -30.00
extra, bots lb.28.00 -40.00
Madagascar, bots. lb. No stocks
Oleostearine, bbls. lb. .11 - .11¼
Opium, USP, cns lb.19.20 -19.45
gran., USP, cns. lb.21.65 -21.90
powd., USP, cns lb.21.65 -21.90
Orange cadmium lithopone, bbls., frt. alld. E. of Rockies lb. 1.56 - —
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., include Davenport, Tenn., and E. of Minneapolis, Rock Island, St. Louis, St. Paul lb. .31 - —

Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1½c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

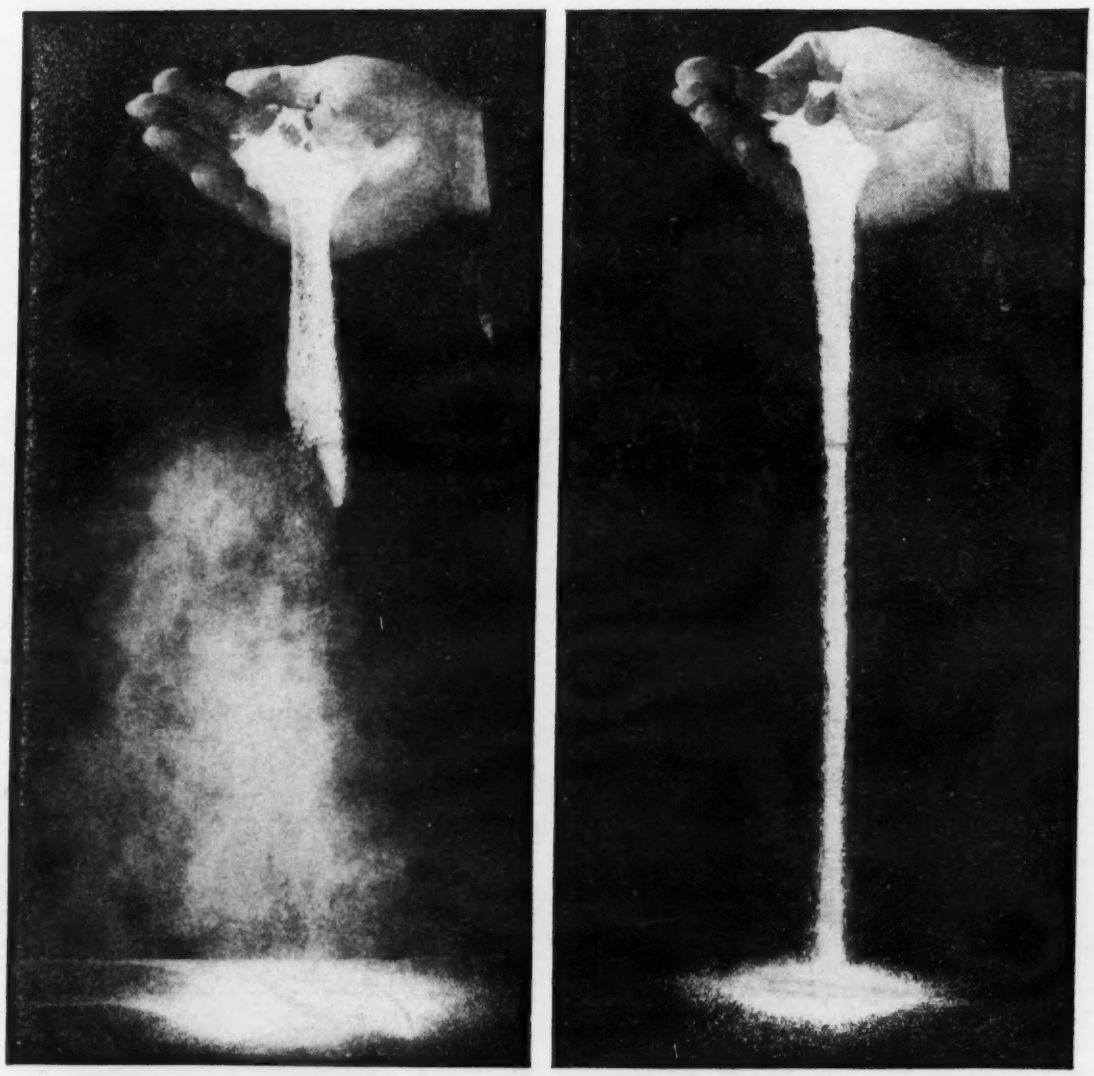
Dinitroaniline toner lb. 1.30 - —
vis., non-ret., dms., c.l., same basis gal. .69½- .73
Orange mineral, American, bbls., l.c.l., works lb. .2035- .2060
Molybdated, bbls lb. .45 - —
o-Nitroaniline toner, kgs lb. 1.15 - —
Orange peel, bitter, Haitian, bls lb. .14 - .16
sweet, bls lb. .16 - .18
Orris root, Florentine, bls lb. .45 - .50
powd., bbls., bxs lb. .50 - .53
Verona, bls lb. .35 - .40
powd., bbls., bxs lb. .40 - .45
Orthoaminobiphenyl (see o-Aminobiphenyl).
Orthoanisidin (see o-Anisidine).
Orthochloroanilin (see o-Chloroaniline).
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde).
Orthochloroparanitroanilin (see 2-Chloro-4-nitroaniline).
Orthochlorophenol (see o-Chlorophenol).
Orthocresol (see o-Cresol).
Orthodichlorobenzene (see o-Dichlorobenzene).
Orthonitroanilin (see o-Nitroaniline).
Orthonitrochlorobenzene (see o-Nitrochlorobenzene).
Orthonitrobiphenyl (see o-Nitrobiphenyl).
Orthonitroparachlorophenol (see 2-Nitro-4-chlorophenol).
Orthonitrophenol (see o-Nitrophenol).
Orthonitrotoluene (see o-Nitrotoluene).
Orthophenetidin (see o-Phenetidine).
Orthophenylphenol (see o-Phenyl phenol).
Ortho-tertiary-amylphenol (see o-tert-Amylphenol).
Orthotolidin (see o-Tolidine base).
Orthotoluidin (see o-Toluidine).
Osage orange, cryst., No. 1, bbls., l.c.l lb. .40 - —
extract, liq., No. 1, bbls., l.c.l lb. 19 - —
Ouabain, USP, bots gram. 3.00 - 4.00
Oxyquinolin sulfate, cns., 100-lb. lots, works lb. 4.75 - 5.00
smaller lots, works lb. 4.92 - 5.17

P

Pancreas substance, assay 1:75 bots., 5-lb. lots or more lb. 4.00 - —
Pancreatin, USP, bots lb. 1.90 - 2.10
Papain, USP, African, bots lb. 3.50 - 4.00
Ceylon lb. 3.00 - 3.50
Papaverine, nat. or syn. hydrochloride, USP, cns., 25-oz. to 100-oz. lots oz. 5.00 - —
smaller lots oz. 5.05 - 5.20
Sulfate, cns. oz. 7.10 - 7.35
Paprika, Roumanian, bgs. lb. .28 - —
Spanish, bgs lb. .36 - .37
Yugoslavian, bgs lb. .36 - —
Para-aminophenol (see p-Aminophenol).
Para-anisidin (see p-Anisidine).
Parachloranilin (see p-Chloroaniline).
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).
Parachloro-orthonitroanilin (see 4-Chloro-2 nitroaniline).
Parachlorophenol (see p-Chlorophenol).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).
Paraffin, crude scale, white, 121°-123°F, ASTM, solid, c.l., refy lb. .0710- —
fully refd., 122°-124°F, ATSM, slabs loose, c.l., refy lb. .0845- —
125°-127°F, ASTM, slabs loose, c.l., refy lb. .0845- —
130°-132°F., ASTM, slabs loose, c.l., refy lb. .0855- —
132°-134°, ASTM, slabs, loose, c.l., refy lb. .0855- —
135°-137°F., ASTM, slabs loose, c.l., refy lb. .0855- —

Prices for paraffin in bags and ctns., c.l. 7/10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher and under 1,000 lbs. 3.7c. per lb. higher.

AMP temperatures are an arbitrary 3°F. higher than ASTM.



THE OLD AND THE NEW—These unretouched photographs tell the story. At the left is regular "low-dusting" PE, at right, Hercules' new nondusting grade.

HERCULES HAS REMOVED THE "DUST" FROM PE

Hercules' new nondusting technical PE is now available in full commercial quantities—at no increase in cost!

This new grade of Hercules® technical pentaerythritol has a more uniform particle size. There is no change in its carefully balanced chemical specifications, but through entirely new mechanical processing methods all fines and "smoke" are eliminated.

The result is greater safety, better working conditions (especially during charging), and more uniform reactions because fewer fine particles collect on the dome of the kettle and in the condensers.

Specify the new Hercules nondusting grade on your next PE order and see the difference for yourself. For further information, contact your nearest Hercules district sales office, or write:

Synthetics Department
HERCULES POWDER COMPANY
INCORPORATED
936 Market Street, Wilmington 99, Del.

SPSS-1

Paraformaldehyde, 91%, flake, bgs., c.l., frt. alld..lb. .1075- —
l.c.l., frt. alld.....lb. .1275- .1375
powd., bgs., c.l., frt. alld..lb. .15½- —
l.c.l., frt. alld..lb. .17 - —
USP X, fib. dms., c.l.....lb. .183 - —
1,000-lb. lots.....lb. .193 - —
smaller lots.....lb. .208 - —

Paraldehyde, tech., 98%, 55-gal. dms., c.l. works..lb. .13½- —
l.c.l., works.....lb. .14½- —
tanks, works.....lb. .11½- —

Paranitroaniun (see p-Nitroaniline).
Paranitrochlorobenzene (see p-Nitrochlorobenzene).
Paranitrophenol (see p-Nitrophenol).
Paranitrotoluene (see p-Nitrotoluene).
Paraphenetidin (see p-Phenetidine).
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-amylphenol (see p-tert-Amylphenol).
Para-tertiary butylphenol (see p-tert-Butylphenol).

Parathion, spray powder, 15% dealers, dms., works..lb. .50 - .53
tech., dms., c.l., t.l., works....lb. 1.3395- —
l.c.l., works.....lb. 1.51 - —

Paratoluenesulphonamide (see p-Toluenesulfonamide).
Paratoluidine (see p-Toluidine).

Paris green, dealer, distributor, dms., c.l., works, frt. alld. on 96 lbs. or over..lb. .36 - .40
l.c.l., same basis.....lb. .37 - .53

Passion flower herb, bls.....lb .20 - .21

Peanut meal, 45%, old process, bgs., mills..ton. 78.00 Nom.

Pectin, citrus, NF, powd., bbls..lb. 2.05 - 2.06
tech., powd., bbls.....lb. 1.50 - —
imported, Danish, ex whse....lb. 1.23 - —

Penicillin, crystalline, potassium, sterile, bulk, 1,000,000 units. .04½- .05
Procaine bulk....1,000,000 units. .04½- .05
Sodium, sterile, bulk, 1,000,000 units. .04½- .05

Pentachlorophenol, dms., c.l., t.l., works, frt. equald..lb. .21 - —
l.c.l., same basis.....lb. .22½- .29

Pentaerythritol, tech., bgs., c.l., works..lb. .32 - —
l.c.l., works.....lb. .33 - —

Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol).

Pentane, industrial, tanks, Tex. refy gal. .14¼- —

Pepper, black, Malabar, spot, bgs lb. .50 - —
red, Gondar, spot, bgs.....lb. .28 - .30
Japanese, hontaka, bgs.....lb. .32 - .33
birdseyes, bgs., new crop lb. .51 - .52
Mombasa, bgs., shipt.....lb. .64 - —
Nigerian, bgs.....lb. .30 - .31
Turkish, bgs.....lb. .20 - .21
white, bgs.....lb. .61 - .62

Peppermint leaves, USP, dom., bls., dms lb. .70 - .75
imp., bls.....lb. 1.10 - —

Pepsin, NF, 1:3,000 bulk.....lb. 3.45 - 3.50

Perchloroethylene, dms., c.l., or truckloads, dlvd. E..lb. .12½- —
l.c.l., dlvd. E.....lb. .14 - —
t.t., 1,000 gal. min., dlvd. E..lb. .11½- —
tanks, dlvd E.....lb. .11 - —
dlvd. W.....lb. .11½- —

Peru balsam, dms.....lb. 1.50 - 1.75

Petrolatum, amber, dms., c.l., refy. lb. .05 - .05¾
l.c.l., dlvd.....lb. .06¾- .07
tanks, refy.....lb. .03¼- .04¼
cream, dms., c.l., refy.....lb. .06¼- .07¼
l.c.l., dlvd.....lb. .08½- .08¾
tanks, refy.....lb. .04⅜- .05⅛
extra amber, dms., c.l., refy...lb. .05¼- .05⅞
l.c.l., dlvd.....lb. .07 - .07¼
tanks, refy.....lb. .03½- .04⅜
USP, white, lily, dms., c.l., refy. lb. .06⅝- .07¼
l.c.l., dlvd.....lb. .08⅜- .09⅛
tanks, refy.....lb. .04⅞- .06
snow, dms., c.l., refy.....lb. .07½- .07¾
l.c.l., dlvd.....lb. .09⅜- .09⅝
tanks, refy.....lb. .05⅜- .05⅞
soft, dms., c.l., refy.....lb. .06¾- .07¼
l.c.l., dlvd.....lb. .08½- .08¾
tanks, refy.....lb. .05 - .05⅛
yellow, soft, dms., c.l., refy. lb. .05¼- .05¾
l.c.l., dlvd.....lb. .06⅝- .07⅛
tanks, refy.....lb. .03½- .05⅛

Petroleum, lacquer diluent, 150-240°F., b.r., tanks, West Coast, ex tax, Los Angeles, gal. .169 - .204
East coast, N. J., N. Y..gal. .19 - —
Group 3, benzol-type....gal. .14125- .14625
toluol-type....gal. .13125- .13375

Mineral spirits, reg., tanks, California, ex tax, San Francisco..gal. .164 - —
East coast, N. J., N. Y.gal. .17 - —
Group 3.....gal. .1175- —
tankwagon, Boston.....gal. .19 - —
Buffalo.....gal. .193 - —
Chicago.....gal. .279 - —
Cleveland.....gal. .22 - —
Newark.....gal. .18 - —
New York.....gal. .18 - —
Philadelphia.....gal. .183 - —
Pittsburgh.....gal. .18 - —
Providence.....gal. .195 - —

odorless, tanks, refy., Watson, Cal..gal. .245 - —
Borger, Tex.....gal. .24 - —
Houston, Tex.....gal. .22 - —
Wood River, Ill.....gal. .2625- —
dlvd. N. J.....gal. .32 - —
dlvd. N. Y.....gal. .33½- —
tankwagon, N. J., dlvd..gal. .36 - —
N. Y., dlvd.....gal. .37 - —

Naphtha, cleaners, tanks, East Coast, N. J. and N. Y..gal. .17 - —
Group 3.....gal. .12875- —
tankwagon, Newark.....gal. .18 - —
New York.....gal. .18 - —
Philadelphia.....gal. .185 - —

High solvency (see Petroleum solvent, partial aromatic).

VM&P, 225°-300°F, b.r., tanks, West Coast, Los Angeles gal. .169 - —
Portland, Ore..gal. .175 - —
San Francisco..gal. .174 - —
Seattle, Wash..gal. .175 - —
East Coast, N. J., N. Y..gal. .18 - —
Group 3.....gal. .12875- —
tankwagon, Boston.....gal. .205 - —
Chicago.....gal. .289 - —
Cleveland.....gal. .23 - —
Newark.....gal. .195 - —
New York.....gal. .195 - —
Philadelphia.....gal. .20 - —
Pittsburgh.....gal. .19 - —

Solvent, partial aromatic, tanks, 205°-282°F., b.r., 41°C., m.a.p., N. Y., N. J..gal. .245 - —
212°-278°F. b.r., 43°C. m.a.p., N. J..gal. .26 - —
212°-284°F. b.r., 19°C. m.a.p., N. J..gal. .29 - —
224°-280°F. b.r., 48°C. m.a.p., Houston..gal. .213 - —
273°-361°F. b.r., 29°C. m.a.p., N. J..gal. .29 - —
282°-325°F. b.r., 41.5°C. m.a.p. Houston..gal. .23 - —
287°-386°F., b.r., 31°C., m.a.p., N. J..gal. .29 - —
310°-344°F. b.r., 13.5°C. m.a.p., Texas City..gal. .33 - —
310°-348°F. b.r., 17°C., m.a.p., N. Y., N. J..gal. .35 - —

Petroleum, solvent, partial aromatic, tanks, 320°-360°F. b.r., 16°C. m.a.p., N. Y., N. J. gal. .33 - —
324°-349°F. b.r., 37°C. m.a.p., Houston..gal. .33 - —
341°-390°F, b.r., 35°C., m.a.p., N. J..gal. .27 - —
352°-413°F, b.r., 30°C. m.a.p., Houston..gal. .33 - —
352°-410°F. b.r., 16.5°C. m.a.p., Texas City..gal. .33 - —
358°-401°F. b.r., 25°C. m.a.p., N. Y., N. J..gal. .39 - —
364°-404°F. b.r., 19°C. m.a.p., N. Y., N. J..gal. .425 - —
367°-418°F. b.r., 19.6°C. m.a.p., N. Y., N. J..gal. .33 - —

rubber, tanks, Cal., ex tax, San Francisco..gal. .173 - —
East Coast, N. J., N. Y., gal. .18 - —
Group 3.....gal. .12875- —

Stoddard, tanks, East Coast, N. J., N. Y.....gal. .17 - —
Group 3.....gal. .12375- —
Pennsylvania, western...gal. .15 - —
Boston.....gal. .19 - —
Chicago.....gal. .229 - —
Cleveland.....gal. .22 - —
Los Angeles, ex tax....gal. .194 - —
Newark.....gal. .18 - —
New York.....gal. .18 - —
Philadelphia.....gal. .185 - —
Pittsburgh.....gal. .18 - —

Sulfonate, oil soluble, 60-62% sulfonic content, non-ret., ret., dms., c.l., works..lb. .16 - .18¼
t.c.l., works.....lb. .17 - .18½
tanks, works.....lb. .14 - .16½

50-55% sulfonic content, non-ret. dms., c.l., works..lb. .15½- —
t.c.l., works.....lb. .16½- —
tanks, works.....lb. .12½- —

o-Phenetidine, dms., works.....lb. 1.00 - —
p-Phenetidine, dms., works.....lb. 1.00 - —
Phenobarbital, USP, dms., 100-lb. lots..lb. 3.50 - —
Phenobarbital-sodium, USP, dms., 100-lb. lots..lb. 3.50 - —

Phenol, 90-92% (cresol 8-10%), non-ret. dms., c.l., frt. alld. E. of Rockies..lb. .16¾ —
t.c.l., same basis.....lb. .17½- —
tanks, same basis.....lb. .15 - —

82-84% (cresol 16-18%), non-ret. drums, c.l., same basis.lb. .16¼- —
t.c.l., same basis.....lb. .17 - —
tanks, same basis.....lb. .14½- —

39° or above, tar distilled, non-ret. dms., c.l., same basis..lb. .17¼- .17¾
t.c.l., same basis.....lb. .18 - .18½
tanks, same basis.....lb. .15½ —

USP, syn., dms., c.l., frt. alld. lb. .18¾- —
1,000-lb. lots or more, same basis..lb. .19½- —
less than 1,000-lb. lots, same basis..lb. .20½- —
tanks, same basis.....lb. .17 - —

Phenolphthalein, USP or yellow, bbls., dms., 2,000-lb. lots. lb. 1.10 - —
smaller lots.....lb. 1.12 - 1.17

Phenothiazine, NF, fib. dms., c.r., frt. adjusted..lb. .38 - —
over 2,100 lbs., same basis..lb. .41 - —
less than 2,100 lbs., same basis. lb. .43 - —

Phenyl acetate, dms., 100-lb. lots, works..lb. .50 - —

Salicylate (see Salol.)

Paraformaldehyde—p-Phenylphenol

Phenylacetaldehyde, soln., 50%, bots lb. 2.40 - 2.70
100%, bots.....lb. 4.00 - 4.65

Phenylacetamide, 125-lb. dms., works lb. 1.10 - —
smaller dms., works.....lb. 1.15 - 1.10

dl-Phenylalanine, dms., works lb. 27.00 - 37.50

1-Phenyl-3-carbethoxy pyrazolone-5, 250-lb. fib. drms., dlvd. E lb. 3.60 - —
smaller dms., dlvd. E lb. 4.00 - —

Phenyldiethanolamine dms., c.l., dlvd. E..lb. .40½- —
l.c.l., dlvd. E.....lb. .41½- —
tanks, dlvd. E.....lb. .38½- —

m-Phenylenediamine, dms., frt. alld. lb. .90 - —

o-Phenylenediamine, coml., 100 to 1,000 lbs., fib. dms., works lb. 1.70 - 1.80

p-Phenylenediamine, redist., dms., works lb. 2.00 - —
tech., refd., dms., same basis.lb. 1.10 - 1.35

Phenylethanolamine, dms., c.l., works..lb. .75½- —
l.c.l., same basis.....lb. .76 - —

Phenylethyl acetate, bots.....lb. 1.30 - —

b-Phenylethylamine, dms., 1,000-lb. lots, works..lb. 1.10 - —
smaller lots, works.....lb. 1.15 - 1.40

Phenylethylphenyl acetate, bots lb. 3.95 - 4.40

Phenylhydrazine base, CP, bots lb. 3.00 - 3.07
Hydrochloride, coml., kgs., works. lb. 1.75 - —
purif., bots., works lb. 5.17 - —

1-Phenyl-3-methyl pyrazolone-5, 250-lb. lots, dlvd. E lb. 1.70 - —
smaller lots, dlvd.....lb. 2.00 - —

o-Phenylphenol, dms., t.c.l., works.lb. .42 - .44

p-Phenylphenol, bgs., c.l., works..lb. .35 - —
l.c.l., works.....lb. .39½- —

PROVED PERFORMER

This mass of rubber and steel is a fine example of early automotive design, and is still in running condition today, almost half a century after it was built. It is an antique Cadillac touring car de luxe of the duster and goggles era.

Esso Petroleum Solvents have had the same test of time, and like the Cadillac, have built a fine reputation for superior quality and unfailing dependability. Why not get the highest quality next time you order? Specify Esso Petroleum Solvents for the quality your product deserves.

You can depend on Esso Solvents for

MULTI-STORAGE AVAILABILITY—water terminals in industrial centers.

MODERN HANDLING METHODS — separate tank storage, pumping lines, tank cars and trucks are used in all handling operations. Prompt delivery to your door is assured.

SOLVENCY — Esso aliphatics and Solvesso aromatics cover both high and low solvency ranges.

CONTROLLED EVAPORATION—available in a wide range of evaporation rates with precise characteristics to meet your most exacting requirements.

FOR TECHNICAL ASSISTANCE — If you have a solvents problem or want further information on the specifications and characteristics of Esso Solvents—write or call our office nearest you. Our technicians will be glad to assist you.

ESSO

PETROLEUM SOLVENTS

SOLD IN: Me., N. H., Vt., Mass., R. I., Conn., N. Y., N. J., Pa., Del., Md., D. C., Va., W. Va., N. C., S. C., Tenn., Ark., La.

ESSO STANDARD OIL COMPANY

Boston, Mass. — Pelham, N. Y. — Elizabeth, N. J.—Bala-Cynwyd, Pa.—Baltimore, Md.—Richmond, Va.—Charlotte, N. C.—Columbia, S. C. — Memphis, Tenn. — New Orleans, La.

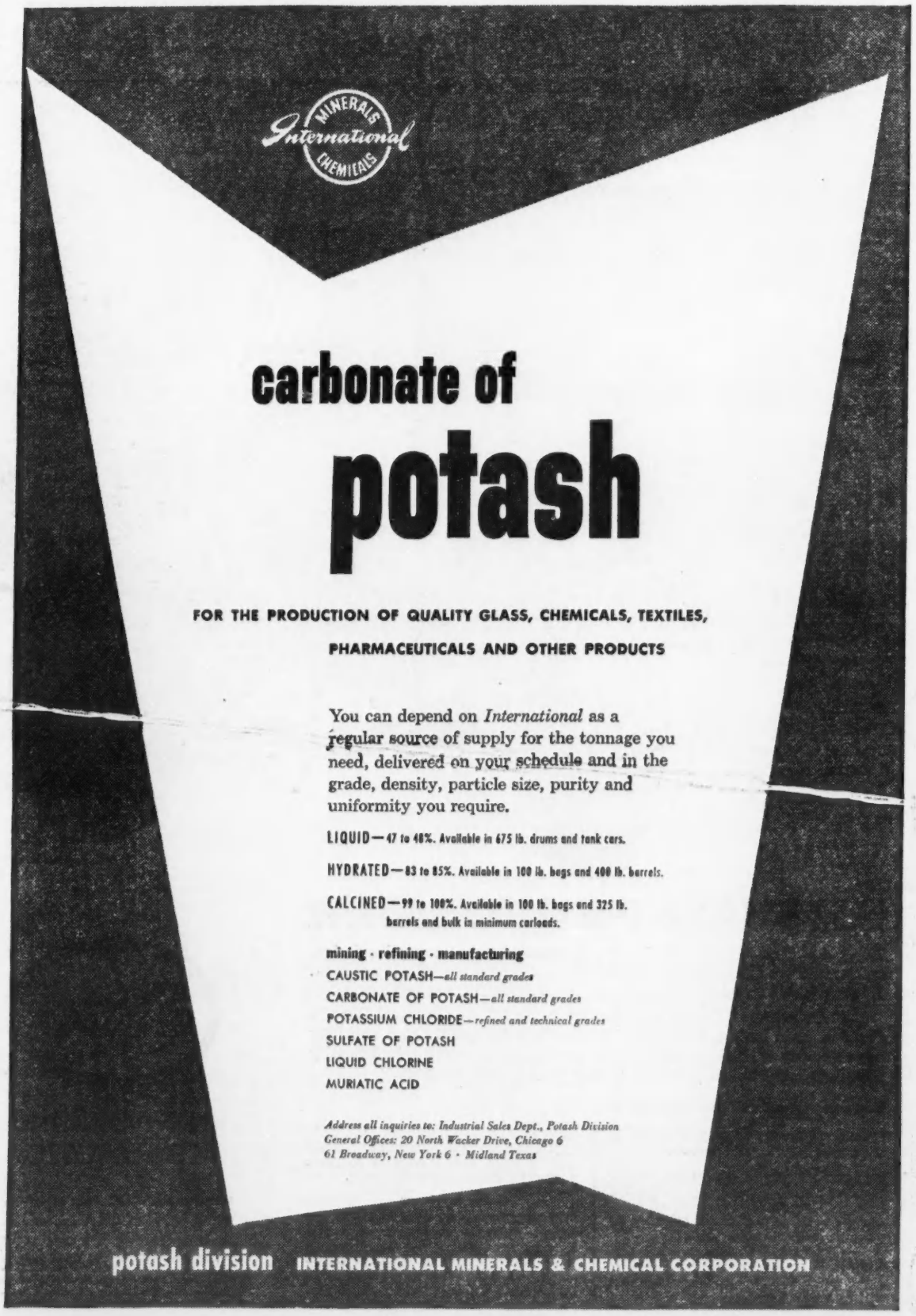
Phloroglucinol—Propane

Phloroglucinol, coml., fib. dms., works..lb. 6.40 • —
C.P., bots., works.....lb.17.75 • —
tech., tin cms., works.....lb.10.45 • —
Phosphate, defluorinated (see under D).
Rock, Curacao, Atlantic ports, New Orleans..ton.43.00 • —
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 68-66%, b.p.l., bulk, c.l., mines..long-ton. 4.68½- —
70-68%, b.p.l., c.l., same basis..long-ton. 5.08½- —
72-70%, b.p.l., c.l., same basis..long-ton. 5.73½- —
75-74% b.p.l., c.l., same basis..long-ton. 6.73½- —
78-76%, b.p.l., c.l., same basis..long-ton. 7.73½- —
The above prices are based on fuel oil at $2.20 per bbl. and labor at $1.31.
Phasphorus, amorph., red, dms., t.l., works..lb. .43 • —
smaller lots, works.....lb. .44 • .45
white (yellow), solid, dms., c.l., works, frt. equald lb. .20 • .20½
l.c.l., works, frt. equald. lb. .21½- —
tanks, works, frt. equald. lb. .19 • —
Oxychloride, dms., c.l., works..lb. .14 • —
l.c.l., works.....lb. .15 • —
tanks, works.....lb. .12½- —
Pentasulfide, solid, dms., c.l., works lb. .11½- —
l.c.l., works..... lb. .12½- —

Phosphorus pentoxide, dms., c.l., works..lb. .13½- —
l.c.l., works.....lb. .16½- —
Sesquisulfide, tins, cs., works..lb. .29 • —
export, dms. .....lb. .31 • .36
Trichloride, dms., c.l., works..lb. .14 • —
l.c.l., works.....lb. .15 • —
tankcars, works.....lb. .12½- —
Phthalic anhydride, ogs, c.l., works, frt. equald..lb. .20 • —
l.c.l., same basis.....lb. .21 • —
tanks, same basis.....lb. .19½- —
Phthalimide, 97%-98%, dms., works, frt. alld. lb. .65 • .70
Phthalylsulfacetamide, 1,000-lb. lots or more..lb. 5.00 • —
a-Picoline, ret. dms., c.l., works, frt. equald..lb. .43 • .43½
l.c.l., works, frt. equald.....lb. .44 • —
tanks, same basis.....lb. .415 • .422
b,g-Picoline, 5°, dms., c.l., works. lb. .32½- —
l.c.l., works.....lb. .33 • —
g-Picoline, 98%, dms., c.l., works. lb. 2.65 • —
Pilocarpine hydrochloride, USP, bots oz. 5.25 • —
Nitrate, USP, bots., vials.... oz. 4.80 • 4.90
Pimento, Jamaican, bgs.....lb. .85 • —
Mexican, bgs. .....lb. .75 • —
Pink root, bls. .....lb. 2.00 • 3.25
d-Piperazine hexahydrate, French Codex, bots kilo. 8.00 • 8.50
Piperidine, dist., dms., frt. equald. lb. 2.60 • 2.70
Piperonyl butoxide, dms., dlvd. E..lb. 4.50 • 5.05
Cyclonene, dms., dlvd. E.....lb. 3.70 • 4.25

Pitch, coaltar, 150°-170°F. m.p., tanks, works..ton.35.00 • —
Cottonseed, raw, dms., works...lb. .02¼- .03
Linseed, dms.....lb. .06 Nom.
Marine, dms. .....lb. .04¼- .05
Petroleum (see Asphalt, petroleum).
Soybean, dms., works.....lb. .05 Nom.
Tall, dms., works.....lb. .03¾- .04½
Plaster of Paris (see Gypsum).
Platinum metal, works.....oz.80.00 Nom.
Pleurisy root, bls.....lb. .45 • .50
Podophyllum resin, NF, dms.....lb.11.95 • —
Poke root, bls.....lb. .19 • .23
Polymyxin, bulk, bots., dms., 50 billion units or more, 1,000,000 units. .52 • —
25-50 billion units..1,000,000 units. .54 • —
1-25 billion units..1,000,000 units. .56 • —
Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works lb. .41 • —
10,000-20,000-lb. lots, works. lb. .43 • —
smaller lots, works.....lb. .46 • .48
Tristearate, dms., 20,000-lb. lots, works lb. .41 • —
10,000-20,000 lb. lots, works. lb. .43 • —
smaller lots, works.....lb. .46 • .48
Poppy seed, Argentine, bgs.....lb. .19½- .20
Dutch, bgs. .....lb. .23 • .23½
Iranian, bgs. .....lb. .16½- —
Polish, bgs. .....lb. .21½- .22
Turkish, bgs. .....lb. No prices.
Potash, caustic, reg., flake, 88-92%, dms., c.l., works....100 lbs. 9.15 •
t.c.l., works ...100 lbs.10.20 • —
liq., 45% basis, dms., c.l., works..100 lbs. 4.25 • —
t.c.l., same basis 100 lbs. 5.05 • —
tanks, same basis..100 lbs. 3.70 • —

Potash, caustic, solid, 88-92%, dms., c.l., works..100 lbs. 8.70 • —
l.c.l., works.....100 lbs. 9.75 • —
Potassium acetate, NF, dms.....lb. .31 • .36
Bicarbonate, USP, gran., dms..lb. .22 • —
powd., dms. .....lb. .24 • —
Bichromate, bgs., c.l., works..lb. .13 • —
l.c.l., works.....lb. .13½- —
Potassium bichromate in dms. ¾c. higher.
Bitartrate, NF, dom., gran. or powd., bbls., 5,000 lbs. 1 shipt..lb. .36½- —
dms., c.l.....lb. .36 • —
smaller lots.....lb. .37 • .40
imp., kgs.....lb. .37¾- .38
Bromate, dms., 1,000 lbs. or more. lb. .47 • —
25-200-lb. lots.....lb. .57 • .62
Bromide, USP, gran., bbls., kgs.lb. .35 • .36
Carbonate, N.F., gram., bbls., dms..lb. .20 • —
powd., bbls., dms.....lb. .21 • .22
tech., calcined, bbls., c.l., works. 100 lbs. 9.00 • —
t.c.l., same basis..100 lbs.10.05 • —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 7.60 • —
t.c.l., works..100 lbs. 8.65 • —
Chlorate, cryst., dms., c.l., works lb. .10¼- —
t.c.l., works .....lb. .11½- .12
powd., dms., c.l., works..lb. .10¾- —
l.c.l., works.....lb. .12 • .12½
export, dms., New York..lb. .12¾- .13½
NF, gran., 25-lb. metal dms..lb. .35 • —
Chloride, USP, cryst., dms....lb. .21 • .23
gran., dms .....lb. .13 • .17
powd. dms .....lb. .24 • .26
Chromate, tech., bgs .....lb. .50 • .50½
Citrate, USP gran., dms.....lb. .41 • —
powd., dms .....lb. .40½- .41½
Cyanide, dms., 20,000-lb. lots or more, works lb. .45 • —
2,000-19,999-lb. lots, works..lb. .455 • —
smaller lots, works.....lb. .465 • —
Dichromate (see Potassium bichromate).
Ferricyanide, drums, ton lots. lb. .50 • —
Ferrocyanide, bgs., ton lots....lb. .22½- —
smaller lots .....lb. .23 • —
Fluoborate, fib. dms., c.l., works. lb. .30 • —
t.c.l., works .....lb. .31 • —
Fluoride, dms., works.....lb. .37 • .38
Gluconate dms .....lb. .75 • .79
Glycerophosphate, 75% solution, cbys..lb. 2.15 • 2.25
Guaiacolsulfonate, NF, dms...lb. 2.10 • 2.30
Hydroxide, tech. (see Potash caustic).
USP, pellets 100-lb. dms, 1 to 100-dm. lots lb. .28½- .33
Hypophosphite, NF, fib. dms., ton lots or less lb. 1.00 • 1.03
Iodide, dms. .....lb. 1.90 • 1.95
Manure salt, 22%, K_2O, June shipt. unit-ton. .17 • .1765
July forward..unit-ton. .1765- .21
Metabisulfite, gran., dms .....lb. .20 • .21
powd. dms .....lb. .25 • —
Muriate, 59-63% K_2O, bulk, c.l., works, June shipt unit-ton. .36 • —
July forward unit-on. .38 • —
bgs., c.l., works, June shipt. ton.26.00 • —
July forward ....ton.27.20 • —
Nitrate, cryst., bbls., 20-ton lots. 100 lbs.14.40 • —
smaller lots .....100 lbs.14.65 -14.90
gran., bbls., 20-ton lots.100 lbs. 9.75 • —
smaller lots .....100 lbs.11.10 -11.50
powd., bbls., 20-ton lots.100 lbs.10.75 • —
smaller lots .....100 lbs.12.00 -12.50
USP, gran., dms. .....lb. .18 • —
Potassium nitrate in bags, 50c. per 100 lbs. less in kegs, $1 more.
Oxalate, neutral, tech., fine gran., bbls., dms lb. .30 • .32
Pentaborate, gran., bgs., c.l., works..ton.189.00 • —
dms., ton lots, ex whse....ton.293.50 • —
smaller lots, ex whse ...ton.29800 • —
Powdered Potassium pentoborate $10.25 per ton higher
Perchlorate, dms., c.l., works lb. .15 • —
t.c.l., works lb. .16½- —
Permanganate, cml., dms., works. lb. .23½- .26½
USP, dms., works..... lb. .26½- .28
Persulfate, dms., 5-ton lots, works. lb. .18 • —
1-ton lots, works ..... lb. .20 • —
Phosphate, tetrabasic, bbls., works. lb. .16½- .18½
Prussiate, red (see Potassium Ferricyanide).
yellow (see Potassium Ferrocyanide).
Silicate, glass, bgs., c.l., works 100 lbs.17.00 -17.30
t.c.l 100 lbs.17.80 —
soln., clarif., 29° Be, 1:2.5, dms., c.l., works 100 lbs. 5.80 • —
t.c.l., 5 dms. or more, works 100 lbs. 6.55 • 6.95
tanks, works 100 lbs. 5.45 • —
electrical grade, 29° Be, 1:2.0 dms., c.l., works 100 lbs. 6.50 • —
t.c.l., 5 dms. or more, works 100 lbs. 7.25 • 7.65
tanks, works 100 lbs. 6.15 • —
40.5° Be, 1:2.1, dms., c.l., works 100 lbs. 6.45 • —
t.c.l., 5 dms. or more, works 100 lbs. 7.20 • 7.60
Silicofluoride, bbls., works .....lb. .09 • .10
Stannate, dms., frt. alld. E .....lb. .693 • .759
Sulfate, agricultural, 50% K_2O, bulk, works, June shipt. unit-ton. .64 • —
July forward unit-ton. .67 • —
NF VII cryst. dms .....lb. .31 • .33
gran dms. .....lb. .18½- —
powder dms .....lb. .36½- .17
Sulfocyanide, NF, cryst. (see Potassium thiocyanate).
Thiocyanate, NF, cryst., dms .....lb. .84 • .94
tech., works .....lb. .77 • .79
Titanate ctns., c.l., works ..lb. .14 • —
5-ton lots, works .....lb. .14½- —
1-ton lot or less, works .....lb. .14¾- —
Toluene sulfonate, dms., c.l. or tl. works lb. .42 • —
t.c.l., works .....lb. .46 • —
Potassium-magnesium sulfate, bulk, works basis 40% K_2SO_4, 18% MgO, June shipt..ton.13.45 • —
July forward....ton.14.00 • —
tanks, works 100 lbs 6.10 • —
Potassium-sodium tartrate, NF gran., powd., dms., c.l lb. .36½- —
5,000-lb. lots ..... lb. .37 • —
smaller lots ..... lb. .37½- .42¼
Potassium-titanium fluoride, fib. dms., works lb. .39 • .40
Potassium-zirconium fluoride, fib. dms., c.l., works lb. .50 • —
t.c.l. works .....lb .52½- .55
Pregnenolone, bots..... gram. .45 • —
Acetate, bots ..... gram. .40 • —
Procaine hydrochloride, USP, dms., 1,000-lb. lots, frt. alld lb 2.90 • —
100-lb lots ..... lb. 3.00 • 3.00
Progesterone, USP, bots., 100 gram lots gram. .50 • —
Acetate bots ..... gram .70 • —
Propane, indust., tanks, group 3. gal. .02½- —
N Y Harbor ..... gal. .07¼- —


MINERALS
International
CHEMICALS
carbonate of
potash
FOR THE PRODUCTION OF QUALITY GLASS, CHEMICALS, TEXTILES,
PHARMACEUTICALS AND OTHER PRODUCTS
You can depend on International as a regular source of supply for the tonnage you need, delivered on your schedule and in the grade, density, particle size, purity and uniformity you require.
LIQUID—47 to 48%. Available in 675 lb. drums and tank cars.
HYDRATED—83 to 85%. Available in 100 lb. bags and 400 lb. barrels.
CALCINED—99 to 100%. Available in 100 lb. bags and 325 lb. barrels and bulk in minimum carloads.
mining · refining · manufacturing
CAUSTIC POTASH—all standard grades
CARBONATE OF POTASH—all standard grades
POTASSIUM CHLORIDE—refined and technical grades
SULFATE OF POTASH
LIQUID CHLORINE
MURIATIC ACID
Address all inquiries to: Industrial Sales Dept., Potash Division
General Offices: 20 North Wacker Drive, Chicago 6
61 Broadway, New York 6 · Midland Texas
potash division INTERNATIONAL MINERALS & CHEMICAL CORPORATION

n-Propyl acetate, dms., c.l., dlvd. lb. .12¾ - —
l.c.l., dlvd. lb. .13¾ - —
tanks, dlvd. lb. .1075 - —
Gallate, dms., 100 to 2,000-lb. lots works lb 3.90 - 4.40
p-Hydroxybenzoate, USP, dms. lb. 2.30 - 2.40
Thiouracil bots., 50-kilo lots or more kilo. 55.00 - —
smaller lots kilo. 55.10 - 55.30
Propylene dichloride, dms., c.l., dlvd. E lb. .0825 - —
l.c.l., same basis lb. .095 - —
tanks, same basis lb .07 - —
Prices in West 1c. higher dlvd. on same basis.
Glycol, indust., dms., c.l., dlvd. E lb. .15½ - —
l.c.l., same basis lb. .16½ - —
tanks, same basis lb. .13½ - —
USP, dms., c.l., dlvd. E lb. .17½ - —
l.c.l., same basis lb. .18½ - —
tanks, same basis lb. .15½ - —
Methyl ether, dms., c.l., dlvd. lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .18½ - —
Oxide, dms., c.l., dlvd. E lb. .17½ - —
l.c.l., dlvd. E lb. .18½ - —
tanks, dlvd. E. lb. .15½ - —
Psyllium seed, black, bgs. lb. .55 - —
blonde, bgs. lb. .18 - —
husks, bgs. lb. .40 - —
Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots lb. .03⅝ - .04¼
smaller lots lb. .03⅞ - .04½
imp., Italian, silk-screen, coarse, bgs., ton lots lb. .06½ - —
fine, bgs. ton lots lb. .04 - —
sun dried coarse bgs. ton lots lb. .02½ - .04
fine, bgs., ton lots lb. .02½ - .04
Pumpkin seed, bgs lb. .25 - .26
Pyrethrin, syn., (see Allethrin)
Pyrethrum flowers, fine grd., 0.9% pyrethrins, bbls., works lb. .45 - —
powd., 1.3% pyrethrins, bbls., works lb. .65 - —
liq. 20/1 basis (2 grams pyrethrins per 100cc odorless base), dms. works gal. 8.35 - 8.55
100/1 basis (10 grams pyrethrins per 100cc odorless base), dms., works gal. 41.75 - 42.75
oleoresin, dewaxed, 20%, dms., works lb. 9.80 - 9.90
purif., 20% dms., works lb. 10.00 - 10.10
Pyridine, denaturing, dms., c.l., works and frt. equald gal. 2.77 - —
l.c.l., same basis gal. 2.80 - —
refd., 2°, non-ret dms., l.c.l., same basis lb. .75 - —
Pyridoxine hydrochloride, bots., 100-gram lots gram .46 - —
Pyrites, Canadian works long-ton 3.00 - 3.00
Pyrocatechol (see Catechol).
Pyrogallol, NF, dms. lb. 3.27 - 3.30
Pyroxylin, scrap, ungrd., amber, dms., works lb. .20 - —
black, dms., works lb. .12 - —
mixed, mottled, c.ms. works lb. .13 —
shavings, amber, cs., works lb. No stocks.
mixed colors, dms., works lb. .11 - —
white, china, ivory, dms., works lb. .16 - —
dense, opaque, dms. works, lb. .12 - .13
translucent pastels, cs., works, lb. .14 - —
transparent colorless, dms., works lb. .25 - —
colors, dms., works lb. .15 - —
USP, bots lb. 9.50 - —

Q

Quassia chips lb. .17 - —
Quebracho extract, clarif., grd., 70% tannin bgs. c.l., lb. .16½ - .16¾
liq., 35% tannin, bbls. works, lb. .08¼ - —
solid, clarif., 64% tannin, bgs., c.l., ex-dock, duty extra, lb. .12 23/64 - —
ord., 63% tannin, bgs., c.l., same basis lb. .11 21/32 - —
Quercitron extract, cryst., No. 1, bbls., l.c.l. lb. .40 - —
liq., No. 1, bbls., l.c.l lb. .19 - —
Quicksilver (see Mercury metal).
Quince seed, bgs lb. 2.00 Nom.
Quinidine, NF, V cryst., cns., 100-oz. lots oz. 1.15 - —
powd., precip., cns., 100-oz. lots. oz. 1.17 - —
Sulfate, USP, cns., 100-oz. lots. oz. .87 - —
Quinine, NF, cns., 100-oz. lots oz. .54 - —
Bisulfate, USP, cns., 100-oz. lots oz. .37½ - —
Dihydrochloride, USP, cns., 100-oz. lots oz. .54 - —
Ethylcarbonate, NF, cns., 100-oz. lots oz. .63½ - —
Hydrobromide, NF cns. 50-oz. cns. oz. .47½ - —
Hydrochloride, USP, cns., 100-oz. lots oz. .47½ - —
Phosphate, NF, cns., 100-oz. lots.oz. .61 - —
Salicylate, NF, cns., 100-oz. lots.oz. .55 - —
Sulfate, USP, cns., 100-oz. lots.oz. .42 - —
Quinine and Urea hydrochloride, NF, cns oz. .56 - —
Quinoline, dms., c.l., frt. equald. lb. .50¾ - —
l.c.l., same basis lb. .51¼ - —
tanks, same basis lb. .50 - —

R

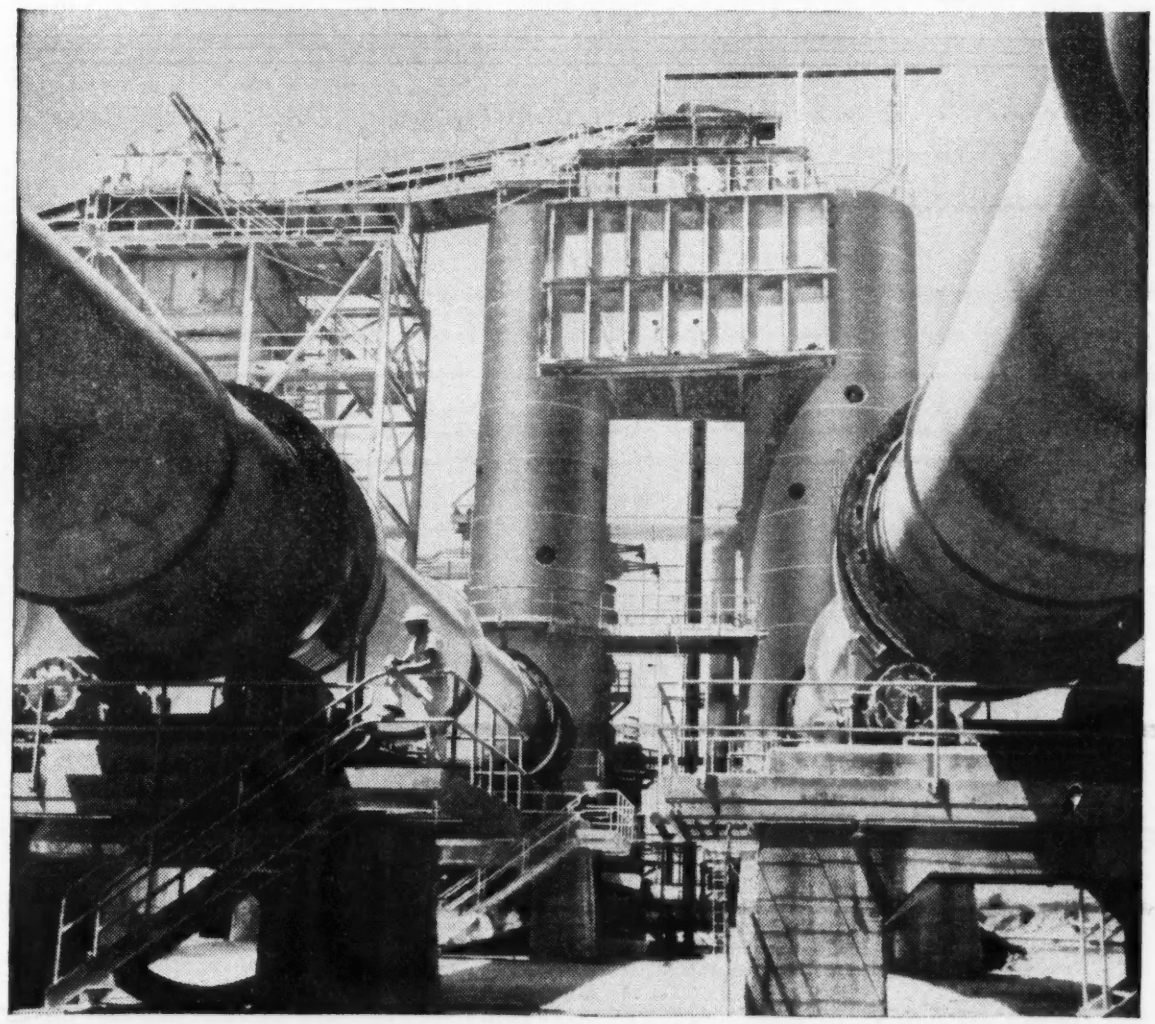
R salt, paste, dms., frt. alld., 100% basis lb. .88 - —
powd., frt. alld., 100% basis lb. .96 - —
Rauwolfia serpentina root, powd., bbls. dms lb. 2.00 - 3.00
Red, BON acid maroons, pure, bbls. lb. 1.75 - —
resinated, bbls lb. 1.50 - —
arylid, deep shades, bbls. lb. 3.60 - —
light shades, bbls lb. 2.75 - —
maroon, bbls lb 3.60 - 5.90
Cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies lb. 4.30 - —
light shade, bbls., same basis. lb. 4.00 - —
medium shade, bbls., same basis lb. 4.25 - —
lithopone, medium light shade, bbls., same basis lb. 4.05 - —
orange shade, bbls, same basis lb. 3.95 - —
deep shade, bbls., same basis. lb. 1.93 - —
light shade, bbls., same basis. lb. 1.70 - —
maroon shade, bbls., same basis lb. 2.05 - —
medium shade, bbls., same basis lb. 1.85 - —
medium-light shade, bbls., same basis lb. 1.77 - —
orange-red shade, bbls., same basis. lb. 1.64 - —

Red cadmium lithopone all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c. per lb higher ex whse. Los Angeles and San Francisco.

Red, Carmine No. 40 (see Carmine).
Dyes (see Dyes, coaltar)
Eosin toner, bbls, works lb. 1.60 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y. lb. .12¾ - —
Iron oxide, nat., 75%-85% ferric oxide, bgs., l.c.l., Bethlehem, Pa., Copley O., Easton, Pa., East St. Louis lb. .04 - .07½
syn. 98% ferric oxide, bgs., c.l., works lb. .12¾ - —
l.c.l., works lb .13 —
Lake C toner, alizarin, bbls., works lb. 1.10 - 1.20
Lithol toner, bbls., works lb .85 — .40
rubine toner, pure, bbls., works. lb. 1.50 - —
resinated, bbls., works lb. 1.40 - —
Virginia type, bbls., works lb 1.40 - —
Maroon toner, MNPT, kgs., c.l., works lb. 3.60 - —
10,000-lb lots, works lb. 4.22 - —
smaller lots, works lb 4.24 - —
Metallic, bbls., c.l., works lb .02½ - —
l.c.l., works lb. .02¾ - —
Naphthol ITR, bbls., works lb. 5.25 - —
Oxide (see Red iron oxide).
Persian Gulf, bgs., c.l., works lb. .06¾ - —
l.c.l., works lb. .07 - —
Para, toner, bbls. lb. 1.05 - —
chlorinated, kgs lb. 1.10 1.15
Phloxin toner (see Red eosin toner)
Rhodamine, molybdated, PMA, kegs lb. 5.35 - —
tungstated, PTMA, works, kegs. lb. 6.15 - —
Spanish oxide, bbls., c.l., ex dock lb. .05¾ - —
l.c.l., ex dock lb. .06 - —
ex whse., New York lb. .06½ - —
Toluidine toner, deep shades, kgs., works lb. 1.60 — —
light shades, kgs., works lb. 1.60 - —
Red, Turkey, bbls., works lb. .62 - —
Tuscan, bbls. frt. equald lb. .2-½ - .25
Venetian, 15%, bgs., works lb. .0350 - .037
20%, bgs., works lb. .0475 - —
25%, bgs., works lb. .0525 - —
30%, bgs., works lb. .0550 - —
35%, bgs., works lb. .0575 - —
40%, bgs., works lb. 0625 - —
Watchung-type, bbls lb. 1.95 — —
Red KB base (see 4-Chloro-2-aminotoluene).
Red, precipitate (see Mercuric oxide red).
Red saunders, NF, powd., bbls lb .35 .40
Reserpine, cryst., bots gram 12.00 - —
Resorcinol, tech. grade, dms., c.l., works lb 77½ - —
l.c.l., works lb. .78¼ - —
USP, cryst., dms., works lb. 2.75 - —
powd., dms., works lb. 2.95 - —
Monoacetate, NF, dms lb 3.00 3.25
Rhatany root, bgs lb 15 16
Rhodinol, 5-lb. cans lb 25.50 - 34.00
Rhubarb root, India, whole, bgs lb. 1.75 Nom.
powd., bbls lb. 2.50 Nom.
Riboflavin, USP, bots., dlvd. kilo. 80.00 - —
readily soluble, bots., dlvd kilo. 130.00 - —
5'-phosphate-sodium, bots., 100-kilo lots or more kilo. 140.00 - —
Rochelle salt (see Potassium-sodium tartrate)
Rosin gum and wood (see Naval Stores in Protective Coatings market).
Rotenone, fib. dms., works, 100% basis lb. 10.00 - —
resin, 25-45%, fib. dms., works, 30% basis lb. 3.00 - —
Rottenstone, bgs., 5-ton lots, ex-whse lb. .03 - —
ton lots, same basis lb. .04 - —
Rutin, NF, fib. dms., 25-kilo lots, kilo. 17.50 - 18.50
10 to 25-kilo lots kilo. 17.50 - 20.00
1 to 10-kilo lots kilo. 18.90 - 20.00
Ryania, 100% powd., bgs., c.l., works lb. .22 —
l.c.l., same basis lb. .24 —

S

Sabadilla seed, powd. obls lb. 49 49¼
activated, ground with lime, bbls lb. .30 .32
Saccharin, USP, cryst., soluble, dms., 1000-lb lots lb. 1.60 —
smaller lots lb 1.70 1.80
powd., soluble insoluble, dms. 1000-lb lots lb 1.65 —
smaller lots lb. 1.75 - 1.95
Saffron, Spanish, USP, tins lb. 35.00 - 40.00
Safrol, dms lb. 1.60 - —
Sage, Cretan bgs lb. .11 - —
Dalmatian, bgs. lb. .40 - —
Italian, bgs. lb. .13 - —
Sago flour raw, bgs lb. .06½ - .06¾
refd., bgs lb. .08¼ - .08¾
Sal soda (see Soda sal).
Salol, NF, gran., bbls., kgs lb. 1.10 - —
Powdered salol, 25c. higher
Salt, rock, paper bgs., c.l. 100 lbs. .98 - —
table, vacuum, common, fine, paper bgs. c.l 100 lbs 1.22 - —
Saltcake, dom., bulk works, 100% Na_2SO_4 basis ton 28.00 - —
Saltpeter (see Potassium nitrate).
Sandalwood, East Indies, chips bgs. .63 .66
powd., fib. dms lb. 75 76
Sanguinarine nitrate, bots oz. 4.75 - 5.50



Mathieson Soda Ash: *there's always an 'r' in purity*

Purity knows no season in the production of Mathieson soda ash; oyster *shells* are available every month of the year. Here at Lake Charles, La., shells are the starting point of the ammonia-soda process. Taken from the Gulf by the thousands of tons, they are washed and placed in huge storage piles, then transferred as needed to the towering silos shown above. From the silos they are fed into large rotary kilns where carbon dioxide and lime of extremely high purity are obtained.

At *all* Mathieson plants, attention to raw materials helps assure the quality of products. In addition, buyers have the protection of multi-plant production facilities... 2 soda ash plants, 6 caustic soda plants, 5 chlorine plants, 7 sulphuric acid plants, 3 ammonia plants... plus practical technical assistance with materials handling and application problems. When planning current or future chemical requirements, be sure to call on Olin Mathieson. Perhaps you can buy to better advantage from one of America's largest, most diversified producers of basic industrial chemicals.

MATHIESON CHEMICALS
OLIN MATHIESON CHEMICAL CORPORATION
INDUSTRIAL CHEMICALS DIVISION • BALTIMORE 3, MD.

MATHIESON

2851A

CAUSTIC SODA • SODA ASH • CHLORINE • SULPHURIC ACID • SULPHUR • AMMONIA • NITRATE OF SODA • BICARBONATE OF SODA • CARBON DIOXIDE • SODIUM CHLORITE • CALCIUM HYPOCHLORITE
ETHYLENE OXIDE • ETHYLENE GLYCOL • DIETHYLENE GLYCOL • TRIETHYLENE GLYCOL • POLYGLYCOLS • DICHLOROETHYLETHER • ETHYLENE DICHLORIDE • METHANOL • SODIUM METHYLATE • ETHYLENE DIAMINE

Sarsaparilla Root—Sodium Nitrate

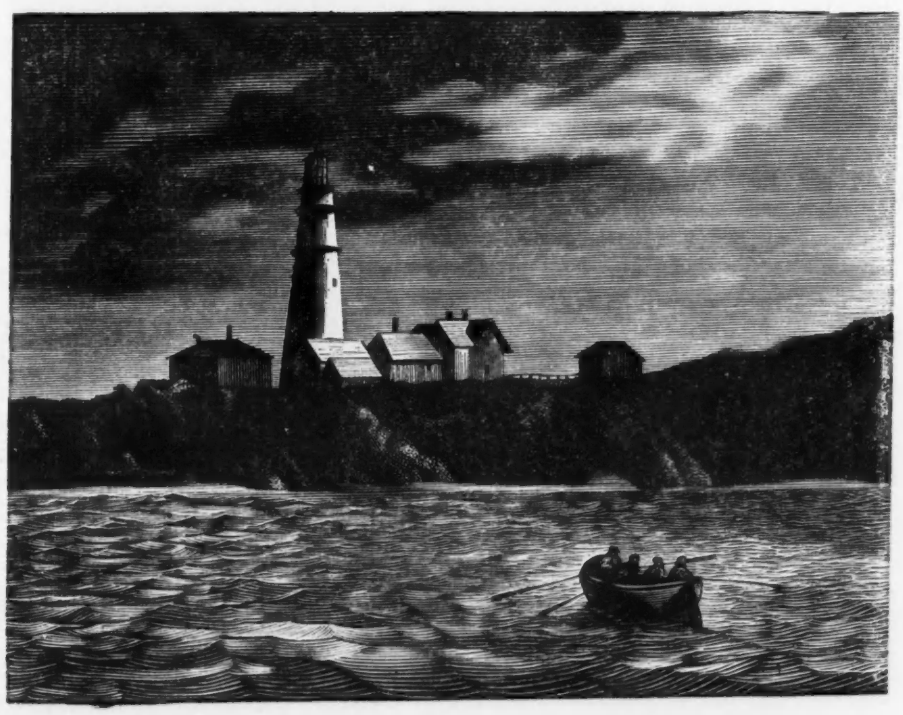
Sarsaparilla root, imp., Honduras, bls. lb. .58 - .62
Mexican, bls. lb. .58 - .62
Sassafras root bark, ord., bls. lb. .45 - —
select, bbls. lb. .65 - —
Schaeffer's salt, paste, dms., frt. alld., 100% basis lb. .95 - —
powd., bgs., frt. alld lb. .95 - —
Scopolamine hydrobromide, USP, bots. oz. 10.25 - 11.50
Seidlitz mixture, bbls., 5,000-lb. lots lb. .30½ - —
smaller lots lb. .31 - .32
Selenium, powd., dms., dlvd lb. 6.00 - 7.25
Senega root, bls lb. 2.35 - —
Senna leaves, Alex., whole and half, bls lb. .19 - —
siftings lb. .17 - —
Tinnevelly, No. 1, bls lb. .16 - .18
No. 2, bls. lb. .13 - .15
No. 3, bls. lb. .11 - .13
powdered, bbls., bxs lb. .18 - —
pods, bls. lb. .14 - —
Serpentaria root, bls lb. 4.95 - —
Sesame seed, Nicaragua, hulled, shipt., bgs. lb. .25 - .26
nat., bgs. lb. .17 - .18
Salvadorian, natural lb. .16½ - .17
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .58 - —
bbls., 1,500-lb. lots lb. .60 - —
kgs., 1,500-lb. lots lb. .61 - —
refd., bgs., 1,500-lb. lots lb. .66 - —
bbls., 1,500-lb. lots lb. .68 - —
kgs., 1,500-lb. lots lb. .69 - —

Bonedry shellac prices for less than 1,500 lb lots 1c. per lb. higher for all packages.

Shellac, lemon, No. 1, bgs., 10-bg. lots lb. .54 - .56
No. 2, bgs., 10-bag lots lb. .52 - .54
Superfine, bgs., 10-bag lots lb. .52 - .53
TN, bgs., 10-bag lots lb. .51 - .52
Shellac in 1 to 10-bg. lots 1c. per lb. more.
Shingle stain oil (see Oil, shingle stain).
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., works ton 25.00 - —
l.c.l., works, exwhse ton 45.00 - 55.00
hard-quartz, 99½, 325 mesh, bgs, c.l., works ton 20.00 - —
l.c.l., works ton 25.00 - 30.00
140 mesh, bgs., c.l., works ton 15.00 - —
l.c.l., works ton 20.00 - —
Silicon tetrachloride, tech., dms., c.l., works lb. .16 - —
l.c.l., works lb. .20 - .28½
Silver bullion, ingots, es Troy oz. .90¾ - —
Cyanide, fib. dms., 2,500-oz. lots oz. .80¾ - —
1,000-oz. lots oz. .81¼ - —
500-oz. lots oz. .81¾ - —
100-oz. lots oz. .81⅝ - —
Nitrate, CP, cryst., bots., 2,500-oz. lots oz. .57¾ - —
bots., 1,000-oz. lots oz. .59¼ - —
bots., 500-oz. lots oz. .59½ - —
bots., 250-oz. lots oz. .60 - —
USP granular silver nitrate 4c. per oz. higher.
Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.05 - —
strong, NF, bots., dms., 1,000-oz. lots oz. 1.00 - —
Soapbark, whole, bls lb. .45 - —
crushed, bls., bbls lb. .55 - —
powd., bbls. lb. .55 - —

Soda ash, dense, 58% paper bgs., c.l., works 100 lbs. 1.70 - —
l.c.l., stock points 100 lbs. 2.80 - 4.57
bbls., c.l., works 100 lbs. 2.30 - —
l.c.l., stock points 100 lbs. 3.35 - 4.12
bulk, c.l., works 100 lbs. 1.40 - —
light, 58%, paper ogs., c.l., works 100 lbs. 1.65 - —
l.c.l., stock points 100 lbs. 3.75 - 4.52
bbls., c.l., works 100 lbs. 2.20 - —
l.c.l., stock points 100 lbs. 3.25 - 3.52
bulk, c.l., works 100 lbs. 1.35 - —
Soda, caustic, solid, 76%, dms., c.l., dms., c.l., works, frt. equald 100 lbs. 4.25 - —
l.c.l., stock points 100 lbs. 5.45 - —
bots., 500-gram lots kilo. 17.50 - —
liq., 50%, sellers, tanks, works, dry basis 100 lbs. 2.70 - —
rayon-type, sellers' tanks, works, dry basis 100 lbs. 2.70 - —
70%, sellers' tanks, works, dry basis 100 lbs. 2.80 - —
rayon-type, sellers' tanks, works, dry basis 100 lbs. 2.80 - —
solid, 76%, dms., c.l., works 100 lbs. 3.85 - —
l.c.l., stock points 100 lbs. 5.05 - —
Sal., bgs., c.l., works 100 lbs. 1.40 - —
l.c.l., works 100 lbs. 1.70 - —
Sodium acetate, anhyd., bgs., c.l., works lb. .12 - —
dms., c.l., works lb. .12¾ - —
NF, 60%, gran., dms., c.l., works lb. .12½ - —
l.c.l., works lb. .14 - —
Alginate, NF, white powd. dms., ton lots, works lb. .87 - 1.30
refd., bbls., works lb. .83 - —
p-Aminobenzoate, dms., 1,600-lb. lots or more lb. 2.40 - —
smaller lots lb. 2.45 - 2.50

Sodium p-Aminosolicylate, dms., 1,000-lb. lots or more, frt. adjusted lb. 3.75 - —
smaller lots, same basis lb. 3.80 - 4.25
Antimoniate, bbls., c.l., dlvd lb. .28 - —
l.c.l., dlvd. E lb. .29½ - —
Arsenate, dms., c.l., works lb. .12½ - —
l.c.l., works lb. .13¾ - .14¾
Arsenite, dms., c.l., works lb. .13½ - —
l.c.l. works lb. .14¼ - .15½
soln., dms., works gal. .70 - 1.10
Ascorbate, dms., 25-50 kilo lots kilo. 16.00 - —
10-kilo lots kilo. 16.35 - —
5-kilo lots kilo. 16.75 - —
1-kilo lots kilo. 17.00 - —
bots., 500-gram lots kilo. 17.50 - —
Benzoate, tech., bbls., dms., 100-lb lots or more lb. .39 - —
USP, bbls., dms., 100-lb. lots, or more lb. .46 - —
Bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.70 - —
l.c.l., works 100 lbs. 3.60 - —
powd., bgs., c.l., works 100 lbs. 2.30 - —
l.c.l., works 100 lbs. 3.20 - —
Bichromate, bgs., c.l., works lb. .11½ - —
l.c.l., works lb. .12 - .13¼
Bifluoride, bbls., c.l., works, frt. equaled lb. .17½ - —
l.c.l., same basis lb. .17⅝ - —
Bisulfate, bulk, c.l. works 100 lbs. 2.00 - —
dms., c.l., frt. equald 100 lbs. 3.00 - 3.60
l.c.l., frt. equald 100 lbs. 3.50 - 4.10
Bisulfite, anhyd., bgs., c.l., works, 100 lbs. 4.50 - —
l.c.l., works 100 lbs. 4.90 - —
soln., 35%, bbls., c.l., works, 100 lbs. 1.55 - —
l.c.l., works 100 lbs. 2.05 - —
Borate (see Borax).
Bromide, USP, bbls., works lb. .35 - —
Carbonate, annyd. (see Soda ash), cryst., monohydrated (see Soda, sal), monohydrated bgs., c.l., works 100 lbs. 2.90 - —
l.c.l., works 100lbs. 3.30 - —
Carboxymethyl cellulose (see CMC).
Chlorate, cryst., dms., c.l., works. lb. .08¾ - —
l.c.l., works lb. .10¼ - .11
Chloride, tech. (see Salt).
USP, bgs. lb. .05 - .12
Chlorite, tech., dms., c.l., works, lb. .58 - —
20-ton lots or more, works, lb. .66 - —
smaller lots, works lb. .70 - .73
Chloroacetate, tech., dms., c.l., works lb. .27 - —
l.c.l., works lb. .28 - —
Chromate, dms., c.l., works lb. .13¼ - —
l.c.l., same basis lb. .13¾ - .15
Citrate, anhyd., dms. lb. .60 - .65
NF VIII, gran., dms lb. .26 - .30½
USP, XVI gran., dms lb. .29½ - .34
Sodium citrate, USP, powd. prices ½c. higher.
Cyanate, dms., 1,000-lb., lots, works lb. .85 - 1.10
smaller lots works lb. 1.00 - 1.25
Cyanide flake, 96-98%, dms., c.l., or 20,000-lb. lots lb. .178 - —
over 1,000-lb lots lb. .188 - —
100-lb. to 1,000-lb. lots lb. .198 - —
Granular sodium cyanide 1c. higher.
Diacetate, 33-35% acidity, 250-lb. dms., works lb. .14 - —
l.c.l., works lb. .14¾ - —
anhyd., dms., c.l., works lb. .17 - —
l.c.l., works lb. .17¾ - —
Dichromate (see Sodium bichromate).
Ferrocyanide, bgs., 10-ton lots lb. .13½ - —
smaller lots lb. .14 - —
Fluoride white, 97%, fib. dms., c.l., works, frt. equald lb. .1250 - —
l.c.l. works lb. .1290 - —
Formate, bgs., c.l., works lb. 7.60 - —
l.c.l. works 100 lbs. 8.65 - —
Gentisate, 100-lb. fib. dms lb. 8.50 - —
Gluconate, refd., dms. lb. .80 - .83
tech., dms lb. .35 - —
Glutamate, mono-, dms., c.l lb. 1.55 - —
Glycerophosphate, NF, cryst., bbls. lb. 2.10 - 2.25
powd., bbls lb. 2.15 - 2.30
soln., 75%, cbys lb. 1.45 - 1.60
Hydride, dms., works lb. 1.80 - 3.00
Hydrosulfide (see Sodium sulfhydrate).
Hydrosulfite, dms., c.l., frt. alld. lb. .22 - —
l.c.l., frt. alld lb. .22½ - —
Hydroxide, tech. (see soda caustic).
NF pellets, 100-lb dms. lb. 100-dm. lots lb. .18½ - .23
Hypophosphite, NF, dms., ton-lots or less lb. .95 - .98
Hyposulfite, USP (see Sodium thiosulfate).
pea crystals, bgs 100 lbs. 4.50 - —
gran., bgs., c.l., works 100 lbs. 4.75 - 5.00
photo grade, bgs., c.l., works. 100 lbs. 4.50 - 4.75
l.c.l., works 100 lbs. 5.00 - 5.05
tech., bgs., works lb. 4.50 - —
l.c.l., works 100 lbs. 4.90 - 6.90
Sodium hyposulfite crystals in bbls., 50c. higher.
Iodide, USP, bots., dms lb. 2.55 - 2.62
Lactate, edible, 50%, cbys., dms., works lb. .21½ - —
60% cbys., dms., works lb. .26½ - —
tech., 50%, cbys., dms., works, lb. 16¼ - —
Lauryl sulfate, dms., c.l., dlvd lb. .22 - —
l.c.l., dlvd lb. .23 - —
tanks, dlvd lb. .20 - —
Metabisulfite (see Sodium bisulfite).
Metaborate, octahydrate, bgs., gran., bgs., c.l., works ton 78.50 - —
l.c.l., ex whse ton 124.50 - 129.50
Sodium metaborate, octahydrate in bbls., $24.50 per ton higher
Tetrahydrate, bbls. c.l., works. ton 199.50 - —
Metallic, bricks, 14,000-lb. lots or more, works lb. .17 - .19
less than 14,000-lb. lots, works. lb. .175 - .195
tanks, works lb. .16 - —
Metanilate, bbls., frt. alld lb. .62 - —
Metasilicate, anhyd., bgs., c.l., works 100 lbs. 5.10 - —
l.c.l., works 100 lbs. 5.45 - 7.35
dms., c.l. 100 lbs. 5.50 - —
l.c.l. 100 lbs. 5.85 - 7.75
Pentahydrate, bgs., c.l., works. 100 lbs. 4.10 - —
l.c.l., works 100 lbs. 4.45 - 6.35
dms., c.l., works 100 lbs. 4.50 - —
l.c.l., works 100 lbs. 5.10 - 5.85
Molybdate, bbls., cbys., works lb. .85 - .95
anhyd., powd., dms., works lb. .85 - .92
cryst., dms., works lb. .70 - —
Monohydrate (see Sodium carbonate, monohydrated).
Naphthionate, bbls. lb. .70 - —
Nitrate, crude, dom., bgs., c.l., works ton 47.00 - —
bulk, c.l., works ton 43.50 - —
imp. 100-lb. bgs., c.l., Atl Gulf, Pac., whse ton 51.25 - —
bulk, c.l., same basis ton 47.75 - —



FAMOUS LIGHTHOUSES OF AMERICA

PORTLAND HEAD LIGHTHOUSE, Maine, was built between 1787 and 1790 by two Portland masons engaged by George Washington, who instructed them to use rubble stone taken from fields and shores. During the Civil War, when raids on shipping required sighting the light from greater distances, the tower was raised 8 feet. Today it stands 80 feet above land and 101 feet above water at the southern entrance to Portland Harbor. It is one of the four Colonial lighthouses that have never been rebuilt.

A Landmark of Quality in the field of electrochemicals is the name Niagara Alkali Company. First to produce several of these important chemicals in America, Niagara is a pioneer in their development and application. You can rely on Nialk® Liquid Chlorine, Nialk Caustic Potash, Nialk Carbonate of Potash, Nialk Paradichlorobenzene, Nialk Caustic Soda, Nialk TRICHLORethylene, Niagathal® (Tetrachloro Phthalic Anhydride).

NIAGARA ALKALI COMPANY

60 East 42nd Street

New York 17, N.Y.

Sodium nitrite, USP, bbls., c.l., works, frt. equaled..lb. .08 - —
t.c.l., same basis.....lb. .09½ - —
Orthosilicate, conc., dms., c.l., works..100 lbs. 6.00 - —
t.c.l., works.....100 lbs. 6.35 - 6.75
hydrated, flake, bbls., c.l., works. 100 lbs. 5.25 - —
t.c.l., dlvd.....100 lbs. 7.00 - —
Oxalate, 88%, bgs., works..100 lbs.10.85 - —
Para-aminobenzoate (see sodium p-Aminobenzoate).
Para-aminosalicylate (see Sodium p-Aminosalicylate).
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald lb. .25½ - —
t.c.l., same basis lb. .26½ - .28¼
pellets, bgs., c.l., same basis lb. .25 - —
t.c.l., same basis..... lb. .26 - .28
powd., bgs., dms., c.l., same basis..lb. .24 - —
t.c.l., same basis..... lb. .25½ - .32
Pentachlorophenate, 20,000 lbs. min. truckloads, ¼c. per lb. over carlot prices.
Perborate, NF, tech., bgs., c.l., works..lb. .173 - —
t.c.l., works ..... lb. .178 - —
Peroxide, dms., c.l., dlvd. E. of Miss..lb. .1860- —
t.c.l., same basis..... lb. .1910- .1960
Phenolsulfonate, USP IX, gran., dms..lb. .44 - .45
powd., dms.....lb. .47 - .48
Phosphate, dibasic, anhyd., bgs., c.l., frt. equald..100-lbs. 7.45 - —
t.c.l., works 100 lbs. 7.85 - —
USP, dried powd., bgs., dms., works lb. .19 - .20½
monobasic, anhyd., bgs., c.l., frt. equald..100 lbs. 8.45 - —
t.c.l., frt. equald..100 lbs. 8.90 - —
duohydrate, bgs., c.l., frt. equald 100 lbs. 7.05 - —
t.c.l., frt. equald.100 lbs. 7.25 - —
tribasic anhyd., bgs., c.l., t.l., frt. equald..100 lbs. 8.45 - —
t.c.l., frt. equald..100 lbs. 8.85 - —
cryst., bgs., c.l., t.l., frt. equald..100 lbs. 4.20 - —
t.c.l., frt. equald..100 lbs. 4.60 - —
Sodium phosphates in dms., 60c. higher than bgs.
Prussiate, yellow (see sodium ferrocyanide)
Pyrophosphate, acid, bgs., c.l., works, frt. equald..100 lbs.10.75 - —
ferric, dms., 1,500-lb. lots, works. lb. .31 - —
smaller lots, works..... lb. .32 - —
tetrabasic, anhyd., bgs., c.l., works, frt. equald..100 lbs. 7.37½ - —
t.c.l., frt. equald....100 lbs. 7.77½ - —
Salicylate, USP, dms. .....lb. .68 - .71
Sesquicarbonate, bgs., c.l., works. lb. 2.10 - —
t.c.l., dlvd., zone 1...100 lbs. 3.85 - 4.10
zone 2 .....100 lbs. 4.10 - 4.35
zone 3 .....100 lbs. 4.40 - 4.65
zone 4 .....100 lbs. 5.10 - 5.35
Sesquisilicate, hydrated, bgs., c.l., zone 1, dlvd. ton.120.00 - —
t.c.l., works .....100 lbs. 4.95 - 5.35
dms., c.l., works.....100 lbs. 5.00 - —
t.c.l., works.....100 lbs. 5.35 - 5.75

Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex. E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia. and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb., E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan., Neb. W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.

Silicate, liq., 40° Be, 1:3.2, turbid, dms., c.l., works 100 lbs. 1.35 - —
t.c.l., works...100 lbs. 1.70 - 2.20
tanks, works....100 lbs. 1.00 - —
47° Be, turbid, 1:2.9, dms., c.l., works..100 lbs. 1.95 - —
t.c.l., dms., works. 100 lbs. 2.55 - 2.80
tanks, works.....100 lbs. 1.60 - —
52° Be, turbid, 1:2.4, dms., c.l., works..100 lbs. 2.30 - —
t.c.l., works....100 lbs. 2.65 - 3.15
tanks, works....100 lbs. 1.95 - —
solid, 1:3.2, bgs., works....ton.57.50 - —
Silicofluoride, bgs., c.l., works..lb. .07 - —
t.c.l., works ..... lb. .07 - .08
Sodium silicofluoride in dms., 4-10c. higher.
Stannate, dms., works, frt. alld. E..lb. .562 - .616
Sulfa drugs (see Sulfa name).
Sulfanilate, bbls., works.....lb. .22 - —
Sulfate, NF, VII, dried, powd., dms..lb. .22½ - —
tech., anhyd., bgs., c.l., dlvd., E..ton.52.00 - —
detergent grade, bgs., c.l., works..ton.34.00 - —
rayon grade, bgs., c.l., works. ton.31.00 - —
USP, cryst., fib. dms ..... lb. .17¼ - .18
gran., fib. dms..... lb. .17½ - .18
Sulfide, flake, dms., c.l., works, E., frt. equald..lb. .05¼ - —
t.c.l., same basis lb. .05¾ - —
fused, bbls., c.l., works, E., frt. equald. lb. .04¾ - —
t.c.l., same basis lb. .05¼ - —
Sulfite, anhyd., bgs., c.l...100 lbs. 3.00 - —
t.c.l. same basis .100 lbs. 3.50 - —
powd., bbls., c.l., works..100 lbs. 7.25 - —
t.c.l., works.....100 lbs. 7.50 - —
Sulfhydrate, flake, 70-72%, dms., c.l., works..lb. .06½ - —
t.c.l., works.....lb. .07 - —
liq., 40-44%, tanks, works, 100% basis..ton.110.00 - —
Sulfocyanide, CP, (see Sodium thiocyanate).
Tetraborate (see Borax).
Tetrasulfide, liq., 46%, dms., c.l., works..lb. .03½ - —
t.c.l., works..... lb. .04 - —
Thiocyanate, CP, dms.....lb. .55 - .65
tech., anhyd., 1 ton lots or more, works..lb. .317 - —
less than ton lot, works..lb. .337 - —
Thiosulfate, NF, cryst., bbls....lb. .12½ - —
tech. (see Sodium hyposulphite).
Titanate, ctns., c.l., works....lb. .10½ - —
5-ton lots, works.....lb. .10¾ - —
1-ton or less, works.....lb. .11 - —
Toluene sulfonate, dms., c.l., or t.l...lb. .38 - —
t.c.l. .....lb. .42 - —
Trichloracetate, 90%, 100-lb. dms., c.l., frt. alld. E..lb. .37½ - —
t.c.l., frt. adjusted, E....lb. .39½ - —
50 lb. dms., c.l., frt. alld E. lb. .38 - —
t.c.l., frt. adjusted E....lb. .40 - —
10-lb. cns., c.l., frt. alld. E. lb. .44 - —
t.c.l., frt. adjusted E.....lb. .46 - —

Prices on Sodium trichloroacetate W. of the Rockies are 1¾c. per pound higher.

Sodium tripolyphosphate, bgs., c.l., works, frt. equald..100 lbs. 7.72½ - —
t.c.l., same basis.....100 lbs. 8.12½ - —
Trisilicate, powd., 1:3.2, bgs., c.l., works..100 lbs. 8.65 - —
t.c.l., works .....100 lbs. 9.40 - 9.80
dms., c.l., works.....100 lbs. 9.05 - —
t.c.l., works .....100 lbs. 9.80 -10.20
Tungstate, tech., kgs., dlvd. E..lb. 1.80 - —
Sodium-ammonium phosphate, bbls., works, frt. equald..lb. .23 - —
Sodium-carboxymethyl cellulose (see CMC).
Sodium-cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde sulfoxylate, dms., c.l., dlvd. lb. .21 - —
t.c.l., same basis..... lb. .21½ - —
Sodium-zirconyl sulfate, fiber dms., 1,000-lb. lots or more works lb. .28 - —
smaller lots, same basis lb. .30 - —
Solvent naphtha, coaltar, high flash, tanks, works. gal. .31 - .35
petroleum (see Petroleum solvent, partial aromatic).
Sorbitan monostearate, fib. dms., 20,000-lb. lots, works .....lb. .32 - —
10,000 to 20,000-lb. lots, works, lb. .34 - —
smaller lots, works lb. .37 - .39
Tristearate, fib. dms., 20,000-lb. lots, works lb. .33 - —
10,000 to 20,000-lb. lots, works. lb. .35 - —
smaller lots, works ... lb. .38 - .40
Sorbitol, cryst., resin grade, pellets, dms., c.l., works...lb. .23 - —
1 to 5-ton lots, works.....lb. .25 - .26
powd., dms., 1 to 5-ton lots, works..lb. .38 - .39
soln., coml., aqueous, dms., c.l., works..lb. .24½ - —
ton lots, works .....lb. .25 - —
smaller lots, works....lb. .25¼ - —
tanks, works.....lb. .23¼ - —

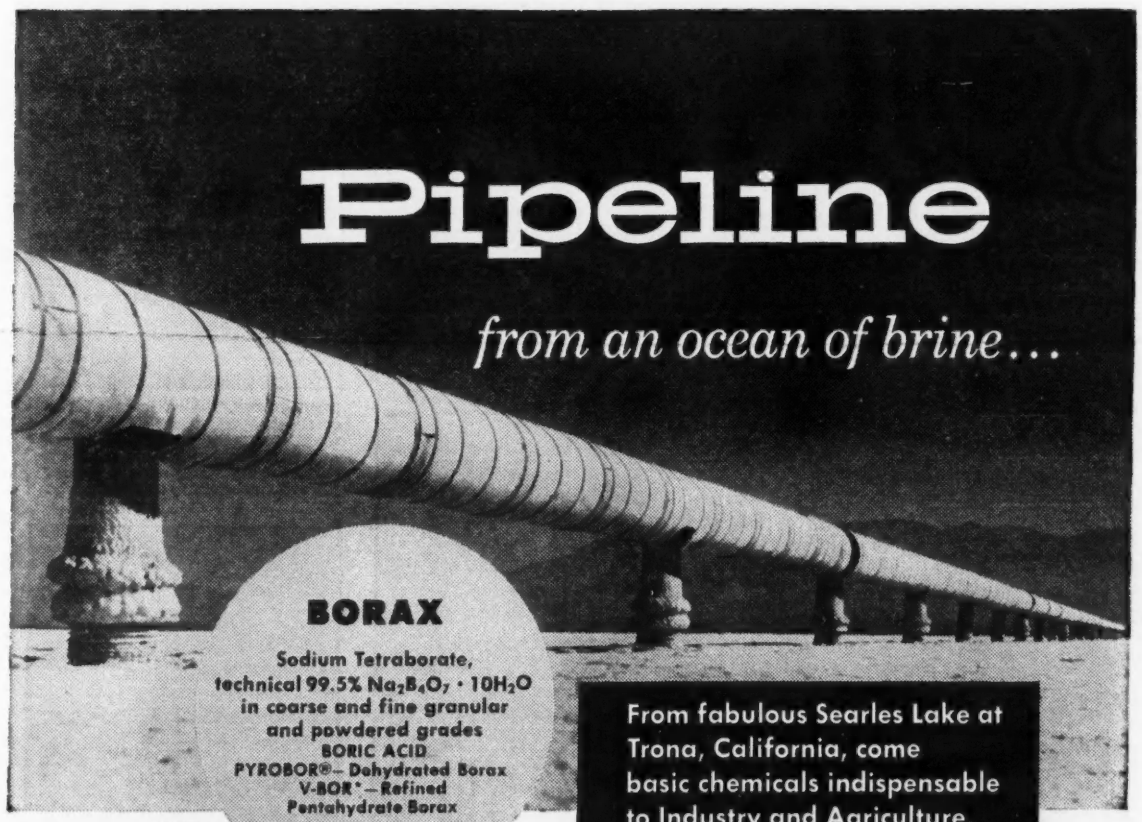
Sorbitol, reg., 70%, aqueous dms., c.l., works..lb. .16 - —
ton lots, works.....lb. .16¾ - —
smaller lots, works..lb. .17 - —
tanks, works .....lb. .15 - —
Soybean meal, 44%, bulk, Decatur. ton.54.00 - —
protein, chemically isolated, bgs., c.l., works..lb. .23 - —
mechanically refd., bgs., c.l., works..lb. .06 - —
Sparteine sulfate, cns.....oz. .80 - .85
Spearmint leaves, dom., bls.....lb. .75 - —
Spruce, extract, liq., reg. tanks, works..lb. .01¾ - —
powd., super, bgs., c.l., works. lb. .05¼ - —
t.c.l., works .....lb. .05½ - —
Squill, white, bls.....lb. .17 - .19
powd., bbls., bxs.....lb. .18 - .21
St John's bread, edible, bls.....lb. .13 - .15
Stannic chloride, anhyd., dms., works..lb. .776 - .786
Oxide, dms., dlvd. E.....lb. .97¾ - .98¾
Stannous chloride, anhyd., dms., works..lb. .836 -1.104
Hydrous, cryst., dms., works. lb. .78½ - .79½
Sulfate, dms., works.....lb. .953 - .993
Starch, corn, pearl, paper bgs., c.l. 100 lbs. 7.14 - —
t.c.l. .....100 lbs. 7.29 - —
powd., paper bgs., c.l..100 lbs. 7.26 - —
t.c.l. .....100 lbs. 7.41 - —

Prices for corn starch in cotton bags, 25c. per 100 lbs. higher.

Starch, potato, dom., Idaho, bgs., c.l., works..lb. .06¾ - —
Maine, bgs., c.l., works..lb. .07 - .97¼
t.c.l., spot.....lb. .09 - .99¼
Rice, bgs., t.c.l.....lb. .15½ - .16
Wheat, bgs. .....lb. .0735- .9780
Star root (see Helonias root).
Stargrass Root (see Aletris root).
Stavesacre seed, bgs.....lb. .80 - .81
Stearine oleo (see Oleostearine.)
Stomach substance, not USP, 100-lb. fib. dms..lb. 2.80 - —
Stramonium leaves, bxs.....lb. .16 - .20
Streptomycin hydrochloride, bulk, gram. .09 - —
Strontium bromide, NF, cns., dms. lb. .77 - .78
Carbonate, pure, dms., 5-ton lots or more, works..lb. .35 - —
1-ton lots, works.....lb. .37 - —
tech., dms., works.....lb. .19 - —
Chromate, bbls., works.....lb. .46 - —
Iodide, jars, 25-lb. lots.....lb. 3.42 - —
Nitrate, bbls., c.l., works..100 lbs.11.00 - —
t.c.l., works.....100 lbs.12.00 - —
Salicylate, NF, dms.....lb. 1.65 - —
Sulfate, air floated, 90%, 325 mesh, bgs., works..ton.56.70 -66.15
Strophanthin, K, bots.....oz.23.00 -23.50
G, (see Ouabaine, USP).
Strophanthus seed, Kombi, biologically tested, bgs lb. 3.50 - 3.75
Styrax, USP, cs..... lb. .78 - .80
Strychnine, NF, powd., cns., 10-oz. lots oz. 1.10 - —
Phosphate, NF, cns., 100-oz. lots.oz. 1.14 - —
Sulfate, USP, cryst., cns., 25-oz. lots..oz. .96 - —
powd., 100-oz. lots.....oz. .85 - —

Pipeline

from an ocean of brine...



From fabulous Searles Lake at Trona, California, come basic chemicals indispensable to Industry and Agriculture.

BORAX
Sodium Tetraborate, technical 99.5% $Na_2B_4O_7 \cdot 10H_2O$ in coarse and fine granular and powdered grades
BORIC ACID
PYROBOR®—Dehydrated Borax
V-BOR*—Refined Pentahydrate Borax

POTASH
Agricultural Muriate 95-98% KCl, Chemical Muriate 99.5% KCl, and Sulphate 95-98% K_2SO_4

SODA ASH
Sodium Carbonate, technical 99.2% Na_2CO_3 58% Na_2O in granular and fine granular grades

SALT CAKE
Sodium Sulphate Anhydrous, 97.0% Na_2SO_4 minimum, in regular and industrial grades

LITHIUM
Lithium Carbonate, Lithium Chemicals, Lithium Ores

American Potash & Chemical Corporation

TRONA INDUSTRIAL AND AGRICULTURAL CHEMICALS

Offices: 3030 West Sixth Street, Los Angeles 54, California
99 Park Avenue, New York 16, New York
214 Walton Building, Atlanta 3, Georgia

Export Division 99 Park Avenue, New York 16, New York

Plants Trona and Los Angeles, California; San Antonio, Texas

*Trade Mark AP&CC

Producers also of—BROMINE CHEMICALS, and a diversified line of specialized agricultural, refrigerant and industrial chemicals

Styrene Monomer—Toluol, Coaltar

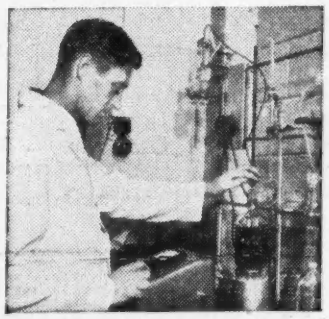
Styrene monomer, polymer grade, 99½%, dms., c.l., frt. equald. lb. .22¼- —
l.c.l., same basis lb. .23¼- —
tanks, same basis lb. .21 - —
synthetic rubber grade, 99%, dms., c.l., frt. equald lb. .19¼- —
l.c.l., same basis lb. .20¼- —
tanks, same basis lb. .18 - —
Styrolyl acetate, bots lb. 1.45 1.70
Sucrose, crude, bgs., works lb. .0555- —
refd., white, bgs., refy., E lb. .0835- —
Octa-acetate, denaturing grade, 100-200-lbs., bgs., l.c.l., works. lb. .76 - —
Sugar, raw (see Sucrose, crude).
Sulfabenzamide, dms lb. 4.00 - 4.50
Sodium, dms lb. 4.10 - 4.60
Sulfacetamide, fib. dms lb. 4.00 - 4.20
Sodium fib. dms lb. 5.00 - 5.20
Sulfadiazine, USP, microcrystals, dms lb.10.60 -11.10
powd., dms lb.10.25 -10.75
Sulfadiazine-sodium, USP, dms lb.11.25 -11.75
microcrystals, dms. lb.11.60 -12.10
Sulfaguanidine, USP dms lb. 2.50 - —
Sulfamerazine, USP, microcrystals. lb.10.65 -11.15
Sulfamerazine-sodium, USP, dms., lb.11.25 -11.75
Sulfamethazine, microcrystals, dms., lb. 8.90 - 9.40
powd., dms lb. 8.50 - 9.00
Sulfanilamide, USP, 30-80 mesh., dms lb. 1.40 - 1.60
microcrystals, dms. lb. 1.70 - 1.90
powd., dms lb. 1.30 - 1.50
Quinoxaline, veterinary, dms lb. 6.40 - 6.75
Sulfapyridine, NF, powd., bots., tins, lb. 7.00 - 7.50
Sulfapyridine-sodium, monohydrate, dms lb. 7.50 - 8.00
Sulfathiazole, USP, microcrystals, dms lb. 2.85 - 3.00
powd., dms lb. 2.50 - 2.65
Sulfathiazole-sodium, USP, dms lb. 2.75 - 2.90
Sulfur, coml., flour, bgs., mines, 100 lbs. 2.30 - —
bbls., mines 100 lbs. 3.05 - —
lump, bgs., mines 100 lbs. 2.20 - —
bbls. mines 100 lbs 2.65 - —
export, f.o.b. vessels, Gulf crude, bulk, c.l., mines, contract, long-ton.26.50 - —
ports long-ton.31.00 -33.00
domestic and Canada, f.o.b. vessel Gulf port long-ton.28.00 -29.50
refd., flowers, USP, bgs., mines, 100 lbs. 4.00 - —
bbls. 100 lbs. 5.25 - —
flour, light, bgs., mines 100 lbs. 3.60 - —
bbls., mines 100 lbs. 4.50 - —
lump, bgs., mines 100 lbs. 3.30 - —
rolls, bgs., mines 100 lbs. 3.85 - —
bbls., mines 100 lbs. 4.40 - —
salt block, bgs., mines 100 lbs. 3.50 - —
virgin block, bbls., mines 100 lbs. 3.45 - —
rubbermakers, coml., reg., bgs., mines 100 lbs. 2.40 - —
bbls., mines 100 lbs. 3.55 - —
98-100% passing through 325 mesh, bgs., mines 100 lbs. 2.50 - —
bbls., mines 100 lbs. 3.65 - —
refd., bgs., mines 100 lbs. 3.25 - —
bbls. mines 100 lbs. 4.30 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.70 - —
bbls., mines 100 lbs. 3.85 - —
10% pine tar, bgs., mines, 100 lbs. 3.90 - —
Dichloride, dms., c.l., works, frt. equald lb. .03¾- —
l.c.l., same basis lb. .04½- —
tanks, same basis lb. .03½- —
Sulfur dioxide, liq., coml., cyls., works, frt. equald lb. .10 - .12
multi units cars, works lb. .0535- —
tanks, works lb. .045 - —
refrigeration cyls., dlvd lb. .27 - —
Monochloride, 55-gal., dms., c.l., frt. equaled lb. .03¾- —
l.c.l., same basis lb. .04½- —
tanks, same basis lb. .03½- —
Sumac leaves, 28%, bgs., ex-dock, ton.132.00 - —
ground, bgs., ex-dock ton.127.00 - —
Superphosphate, run-of-pile, under 22% a.p.a. pulv., bulk, c.l., Balto., unit-ton. .88 - .91
Carteret, N. J unit-ton. .88 - .91
triple, 48% or more, a.p.a., pulv., bulk, c.l., East Tampa, Fla, unit-ton. .98 - —

T

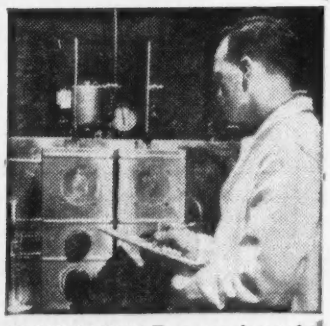
2,4,5-T, dms., c.l., works, frt. equald. lb. 1.25 - —
l.c.l., same basis lb. 1.30 - 2.30
Isopropyl ester, dms., c.l., works, frt. equald lb. 1.30 - —
l.c.l., works lb. 1.35 - —
Talc, dom., ord., Calif., grd., bgs., c.l., works ton.32.00 -38.50
Vermont off color grd., bgs., c.l., works ton.18.40 - —
l.c.l., works ton.36.00 - —
fibrous, New York, grd., bgs., c.l., works ton.27.00 -32.00
l.c.l., works ton.30.00 -35.00
99.5%, 325 mesh, bgs., c.l., works ton.30.00 - —
l.c.l., works ton.33.00 - —
99.95% micronized, bgs., works ton.37.00 - —
Imp., Canadian, grd., bgs., c.l., mines ton.20.00 -35.00
Tallow, edible, tanks, dlvd lb. .09¾- —
inedible, extra, tanks, dlvd lb. .07½- —
fancy, bleachable, tanks, dlvd. lb. .07¾- —
guaranteed, dms., f.a.s lb. .09 - —
No. 1, tanks, dlvd lb. .07 - —
special tanks, dlvd lb. .07¼- —
sulfonated, 25%, bbls., l.c.l lb. .07¾- .08
50%, bbls., l.c.l lb. .09 - .10
Tankage, animal, feeding, 9-11% ammonia, bulk unit-ton. 5.00 - —
Chicago unit-ton. 5.50 - —
Tapioca flour Brazilian, ex whse, bgs. lb. .07¾- .08¼
Siamese, top grade, ex whse lb. .07½- .07¾
Tar acid oil, 15-18%, dms., c.l., frt. equald gal. .47 - .49
l.c.l., same basis gal. .50 - .51
tanks, same basis gal. .39 - —
25-28%, dms., c.l., same basis. gal. .54 - .56
l.c.l., same basis gal. .57 - .58
tanks, same basis gal. .46 - —
50-53%, dms., c.l. same basis. gal. .70 - .72½
l.c.l., same basis gal. .73½- .74½
tanks, same basis gal. .62½- —
Coal (see Coaltar)
Tartar, emetic (see Antimony-potassium tartrate).
Terpine glycol ether, dms., c.l., works lb. .23½- —
l.c.l., works lb. .25½- —
tanks, works lb. .22 - —
Hydrate, NF, cryst., powd., fib. dms lb. .67½- .74
a-Terpineol, dms., l.c.l., dlvd. E lb. .19 - —
Terpineol, coml., dms., c.l., South. lb. .13½- —
l.c.l., South lb. .14 - —
extra, dms lb. .41 - .60
prime, dms lb. .30 - .45
Terpinyl acetate, extra, cns., dms. lb. .60 - .75
prime, dms lb. .55 - .70
Propionate, dms lb. 1.75 - 2.00
Terra alba, (see Gypsum).
Testosterone, USP, 100-gm. lots, bots. gram. .70 - —
Propionate, USP, 100-gm. lots, bots. gram. .68 - —
Tetrachloroethane, dms., works lb. .14½- —
Tetrachloroethylene, tech. (see Perchloroethylene).
USP, 55 gal. dms., works lb. .20½- .21½
smaller dms., works lb. .23½- .25
Tetraethyl orthosilicate, dms., c.l., dlvd. E lb. .61½- —
l.c.l., dlvd. E lb. .62½- —
Pyrophosphate, 40%, cns., dms., frt. equald lb. .69 - —
Tetraethylenepentamine, dms., c.l., dlvd. E lb. .57½- —
l.c.l., dlvd. E lb. .58½- —
tanks, dlvd. E lb. .56 - —
Tetrapotassium phosphate (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium metal, dlvd lb.12.50 -15.00
Sulfate, 99%, bots., dlvd lb. 3.00 -13.00
Theobromine, NF, fib. dms lb. 3.75 - —
And sodium acetate, USP, fib. dms. lb. 4.05 - 4.10
Sodio-Salicylate, NF, fib. dms. lb. 3.35 - 3.40
Theophylline, anyhd. or USP, 100-lb. dms lb. 3.65 - —
Thiamine hydrochloride, USP, regular or ampul-type, fib. dms. kilo.100.00 - —
Mononitrate, USP, fib. dms. kilo.100.00 - —
Thiocarbanilide, dms., ton lots lb. .72 - —
less tons lots lb. .74 - —
Thiodiphenylamine (see Phenothiazine).
Thiourea, tech., dms., c.l., works, lb. .36 - —
l.c.l., works lb. .38 - —
Thorium nitrate, purif., fib. dms., 100-lb. lots or more, works lb. 3.50 - —
dl-Threonine, bots., 1-kilo lots kilo.450.00 -500.00
Thyme leaves, French, bgs lb. .19 - —
Spanish, bgs lb. .09 - —
Thymol, fib. dms lb. 2.50 - 2.65
Iodide, NF, dms lb. 7.30 - —
Timbo root (see Cube root)
Tin chloride (see Stannous chloride, anhydrous).
crystals (see Stannous chloride, hydrous).
Metal (straits) lb. .96½- .96¾
Oxide (see Stannic oxide).
Sulfate (see Stannous sulfate).
Tetrachloride anhyd. (see Stannic chloride, anhydrous).
Titanium dioxide anatase, chalk resistant, bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd lb. .23½- —
ceramic, bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd lb. .23½- —
reg., bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd lb. .23½- —
metallurgical, nat., gran., bgs., c.l., f.o.b. Jacksonville, Fla. ton.120.00 - —
Niagara Falls, N. Y., c.l., ton.137.50 - —
5-ton lots, same basis. ton.142.50 - —
ton lots, same basis. c.l. ton.147.50 - —
rutile, non-chalking, bgs., c.l., dlvd. E lb. .24½- —
l.c.l., dlvd. E lb. .25½- —
Milled titanium dioxide $7.50 per ton higher.
Hydride, cns., works lb. 7.95 - 9.00
Pigment, calcium-rutile base, bgs., c.l., dlvd lb. .08¾- —
l.c.l., dlvd lb. .08⅞- —
Tetrachloride, tech., dms., c.l., works lb. .40¾- —
l.c.l., works lb. .43¾- —
tanks, works lb. .39¾- —
dl-a-Tocopherol, bots kilo.149.65 - —
Acetate, bots kilo.136.00 - —
o-Tolidine base, dist., kgs lb. 1.30 - —
Tolu balsam, cns. lb. 4.25 - 4.50
Toluene (see Toluol).
p-Toluenesulfonamide, flake, dms., frt. alld lb. .64 - .66
powd., dms., works lb. .70 - —
solid, dms., frt. alld lb. .61 - —
m-Toluidine, dms., c.l., works, frt. alld. lb. .79 - —
l.c.l., same basis lb. .80 - —
tanks, same basis lb. .78 - —
o-Toluidine, dms., c.l., works, frt. alld. lb. .23 - —
l.c.l., same basis lb. .24 - —
tanks, same basis lb. .22 - —
p-Toluidine, flake, dms., frt. alld. lb. .64 - —
solid, dms., frt. alld. lb. .60 - .61
Toluol, coaltar, indust. or nitration, tanks, works:—
Bethlehem, Pa. gal. .34 - —
Birmingham dist gal. .32 - —
Chicago dist gal. .35 - —
Cleveland dist gal. .32 - —
Geneva Utah gal. .26 - —
Johnstown, Pa. gal. .32 - —
Lackawanna, N. Y. gal. .35 - —
Lone Star, Tex. gal. .33 - —
Lorain, Ohio gal. .32 - —
Middletown, Ohio gal. .33½- —
Minnequa, Colo. gal. .32 - —
Philadelphia district gal. .34 - —
Pittsburgh dist gal. .32 - —
Sparrow's Point, Md gal. .34 - —
Terre Haute, Ind gal. .35 - —
Youngstown, Ohio gal. .32 - —

CONSTANT SAMPLING ASSURES UNIFORMITY. Samples are drawn from the top, middle and bottom of every tank car and tank truck shipment. Sun files every purity analysis—available for your reference.

TYPICAL TESTS



BROMINE INDEX. The extreme sensitivity of this new test tells Sun Engineers when filters need changing—long before filter deterioration can affect the quality of Sun's aromatics. It assures you of both uniformity and high purity.



DISTILLATION RANGE. Every sample tested must fall within the narrow boiling range specified in ASTM Method D-850. Typical analyses show that Sun's aromatics usually have a much narrower boiling range than is required to pass this test.

PARAFFIN TEST. Sun Toluene is guaranteed to contain less than 0.5% paraffins—substantially below the ASTM maximum of 1.5%. Samples normally contain no measurable paraffin whatever.

USERS REPORT BIG DIVIDENDS FROM HIGH-PURITY SUN AROMATICS

Processing easier, yields higher; all at no increase in price!

The higher purity of Sun's aromatics is already paying big dividends. Several Sun customers are reporting higher yields. Others claim they are getting better, more uniform products. One company reports they have been able to eliminate completely a purification step in processing—and still maintain the quality of their end product. And all these plants are getting these dividend-producing, higher-purity products at no increase in price!

The high purity of Sun's Benzene, Toluene and Xylene is no accident—Sun spent $15 million on a plant specifically designed to produce quality products. Rigid controls and constant testing assure you of the same uniform, high-purity products month in and month out.

Find out what dividends Sun aromatics can give you. Write Dept. OP-7

INDUSTRIAL PRODUCTS DEPARTMENT

SUN OIL COMPANY

PHILADELPHIA 3, PA

SUNOCO

IN CANADA: SUN OIL COMPANY, LTD., TORONTO AND MONTREAL

Toluol, petroleum, indust., 2° tanks, works:—Albany, N. Y. gal. .35 - —
Bayonne, N. J. gal. .34 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill. gal. .35 - —
Detroit, Mich. gal. .35 - —
Houston, Tex. gal. .33 - —
Philadelphia, Pa. gal. .34 - —
Providence R. I. gal. .35 - —
Wood River Ill. gal. .35 - —

2,4-Tolylenediamine, cryst., fib., dms., frt. alld lb. .94 - —
powd., same basis lb. 1.00 - —

Tonka beans, Angostura, cks. lb. 1.65 - 1.80
Brazilian, Surinam, cs. lb. 1.00 - 1.25

Totaquine, 100-oz. lots, cns. oz. .42 - —

Toxaphene, dms., c.l., t.l., works. lb. .20 - —
l.c.l., t.l., works lb .26 - —

Triacetin, dms., c.l., dlvd. E. of Rockies lb. .39 - —
l.c.l., same basis lb. .40 - —
tanks, same basis lb. .37 - —

Tributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .42 - —
l.c.l., frt. alld. E. of Denver. lb. .43 - —
tanks, frt. alld. E. of Denver. lb. .40 - —

Phosphate, dms., c.l., works lb. .52 - —
l.c.l. same basis lb. .53 - —
tanks, same basis lb. .50 - —

Tributylamine, cms., c.l., works. lb. .67 - —
l.c.l., same basis lb. .68 - —
tanks, same basis lb. .65 - —

Trichlorobenzene, dms., c.l., works, frt. alld. E lb. .14½- —
l.c.l., frt. alld. E lb. .15½- —
tanks, frt. alld. E lb. .13 - —
Prices in the West 1¾c. higher.

Trichloroethylene, dms., c.l., or t.l., works, frt. equald lb. .11¼- —
l.c.l., dlvd. E lb. .13½- —
tanks, works, frt. equald lb. .10¼- —

Trichloroethane, dms., c.l., works. lb. .13 - —
l.c.l., works lb. .13½- —
tanks, works lb. .11½- —

Tricholine citrate, 65% soln., ret. cbys., works, frt. adjusted lb. 1.40 - 1.45

Tricresyl phosphate, coaltar, dms., c.l., dlvd lb. .35 - —
l.c.l. dlvd. lb. .36 - —
tanks, dlvd lb. .33 - —
petroleum, dms., c.l., dlvd lb. .35 - —
l.c.l. dlvd. lb. .36 - —
tanks, dlvd. lb. .33 - —

Triethanolamine, dms., c.l., dlvd. E lb. .24 - —
l.c.l., same basis lb. .25 - —
tanks, same basis lb. .22 - —

Triethylamine, dms., c.l., works, dlvd. E lb. .47 - —
l.c.l., same basis lb. .48 - —
tanks, same basis lb. .45 - —

Triethyl citrate, refd., tech., non-ret dms., c.l., frt. alld. E. of Denver lb. .45¾- —
l.c.l., frt alld. E. of Denver. lb. .46¾- —
tanks, frt. alld. E. of Denver. lb. .43¾- —

Phosphate, dms., c.l., works. lb. .38 - —
l.c.l., same basis lb. .39 - —
tanks, same basis lb. .37 - —

Triethylene glycol, dms., c.l., dlvd. E. lb. .20½- —
l.c.l., same basis lb. .21½- —
tanks, same basis lb. .18½- —

Triethylenetetramine, dms., c.l., dlvd. E lb. .48½- —
l.c.l., dlvd. E lb. .49½- —
tanks, dlvd. E lb. .47 - —

Tri-isopropanolamine, dms., c.l., dlvd. E lb. .22¾- —
l.c.l., dlvd. E lb. .23¾- —
tanks, dlvd. E lb. .20¾- —

Trimethylamine, 25-30% soln., dms., c.l., works, frt. equald., 100% basis lb. .42 - —
l.c.l., works, frt. equald, 100% basis lb. .42½- —
tanks, works, frt. equald, 100% basis lb. .33 - —

Trioxane, pure, dms., c.l., t.l., dlvd. E lb. .50 - —
l.c.l., dms., dlvd. E. lb. .51½- —

Tripentaerythritol bgs. l.c.l., works. lb. .35 - —

Triphenyl phosphate, bbls., c.l., frt. equald lb. .39 - —
l.c.l., frt. equald lb. .40 - —

Triphenylguanidine, bbls., works lb. .90 - —

Tripropylene glycol, dms., c.l., frt. alld E. lb. .20½- —
l.c.l., frt. alld. E lb. .21½- —
Prices 1c. per lb. higher in West.

Trisodium fluoroacetate (see Sodium fluoroacetate, tribasic).

Phosphate (see Sodium phosphate tribasic).

Trypsin, pharmaceutical, 1:75, dms., works lb. 6.25 - —

dl-Tryptophane, fib. cns., works. kilo. 165.00 - —

Tungsten metal, powd., 98.8%, dms., dlvd lb. 4.35 - 4.40

Turpentine, gum (see Protective Coatings market, Naval Stores).

Tyrothricin, USP, bots gram .75 - .85

U

Unicorn root, false (see Helonias root).
True (see Aletris root).

Urea, dom., 46% N, bgs., c.l., t.l., Zone 1, dlvd. ton. 120.00 - —
l.c.l., Zone 1, ex whse. ton. 140.00 - —
45% N, bgs., c.l., (30 tons), zone 1, dlvd. ton. 137.00 - —
Zone 2, dlvd. ton. 153.00 - —
Zone 1 prices are basis delivered Kan., Neb., N. Dak., Okla., S. Dak., Tex. and E. Zone 2 prices include all states west of Zone 1.

Urea-ammonia liquor, A and B grades N basis, tankcars, Belle, W. Va. ton. 128.00 - —
C grade, tankcars, same basis. ton. 126.50 - —
37 grade, tankcars, same basis. ton. 155.50 - —

Urethane, USP, dms. lb. 1.50 - —

Uva ursi leaves, bls lb. .12 - .14

V

Valerian root, Belgian, bgs. lb. .32 - .40
dl-Valine, dms., works lb. 21.00 - 27.50
Valonia beards, 40-42% tannin, bgs., exdock ton. 66.00 - 68.00
cups, 28-30% tannin, bgs., exdock ton. 46.00 - 48.00
extract, powd., 63% tannin, bgs., ex-dock, duty extra lb. .08 - .08¼
Vanadium pentoxide, tech., dms., works lb. 1.28 - 1.33
Vanilla beans, Bourbon, tins. lb. 7.25 - 7.50
Mexican, cuts, tins. lb. 8.50 Nom.
whole, tins lb. 8.75 - 9.00
Tahiti, cs. lb. 7.00 - 7.50
Vanillin, ex eugenol, tins, 25-lb. lots. lb. 6.50 - 6.75
smaller lots lb. 6.90 - 7.25

Vinyl acetate monomer, 55-gal. dms., c.l., dlvd. E lb. .18½- —
l.c.l., dlvd. E lb. .19½- —
tankcars, dlvd. E lb. .16½- —
tanktrucks, dlvd. E lb. .17½- —

n-Butyl ether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —

Chloride monomer, tanks, frt. equald lb. .10½- —

Ether, USP, anesthesia, buts., 50 c.c., hospitals, bot 1.12 - —
75 c.c. bot. 1.56 - —

Ethyl ether, tech., dms., c.l., works. lb. .26 - —
l.c.l., works lb. .28 - —
tanks, works lb. .25 - —

Isobutyl ether, tech., dms., c.l., works. lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —

Methyl ether, cyls., works lb. .23 - —
tanks, works lb. .20 - —

Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.

Trichloride (see Trichloroetnane).

2-Vinylpyridine, dms., works lb. 1.40 - 1.5.

Vinyltoluene, dms., c.l., works lb. .20¼- —
l.c.l., works lb. .21¼- —
tanks, works lb. .19 - —

Viosterol, in alcohol, 1,000,000 D units per gram, bots., lots of 10 billion USP units, 1,000,000 units. .025 - —
lots of 1 billion USP units, 1,000,000 units. .03 - —
lots of less than 1 billion USP units 1,000,000 units. .035 - —

Viosterol, in nat., vegetable oil, 400,000 to 1,000,000 D units per gram, bots., lots of 10 billion USP units 1,000,000 units. .02 - .04¾
lots of 1 billion USP units. 1,000,000 units. .025 - .05¼
lots of less than 1 billion USP units. 1,000,000 units. .03 - .05¾

Vitamin A acetate, syn., crystalline, beads, 500,000 A units per gram gram. .07¼- —
dry, 500,000 units per gram kilo lots kilo. 72.50 - —
325,000 units per gram, same basis kilo 47.10 - —
250,000 units per gram, same basis kilo. 36.25 - —
Dry vitamin A acetate in less than kilo lots, $2.50 per kilo higher in all potencies.
liq., in oil, 1,000,000 A units per gram 1,000,000 units. .12 - —
Palmitate, liq., 1,000,000-1,800,000 A units per gram 1,000,000 units. .12 - —
in oil, 1,000,000 A units per gram 1,000,000 units. .12 - —

B_1 (see Thiamine hydrochloride).

B_2 (see Riboflavin).

B_6 complex, natural (see Rice bran concentrate and Yeast).

B_{12}, crystalline, 1-gram or 5-gram vials gram. 245.00 - —
oral grade solids, in containers of 1 and 5 grams of B_{12} activity gram. 185.00 - —

Vitamin C (see Acid, ascorbic).
D (see Oils, codliver and fish-liver, Calciferol, and Viosterol).
D_2, dry, 850,000 units per gram, kilo lots kilo. 42.50 - —
less than kilo lots kilo. 45.00 - —
E (see a-Tocopherol and Oil, wheat germ).
G (see Riboflavin).
H (see Biotin)
K, Active (see Menadione).
K_1, 25 gram bots gram 4.50 - —
Violet methyl toner (see Blue methylviolet toner
V.M.&P. naphtha (see Petroleum naphtha).

W

Wahoo root, bark, bls lb. 2.25 - —
Warfarin, 0.5%, dms., 50-lb. lots, dlvd lb. 1.95 - —
25-49-lb lots, N. Y. or Chicago. lb. 2.05 - —
5-24-lb. lots, cns., N. Y. or Chicago lb. 2.15 - —
Wattle bark, fair average, African, bales, ex dock ton. 99.00 - —
merchantable, bales, ex dock ton. 95.00 - —
extract, liq., 35% tannin, bbls lb. .09¾- .10
solid, E. Africa, 60% tannin, bgs., ex dock, duty extra lb. .09¾- —
S. Africa, 60% tannin, bgs., ex dock, duty extra lb. .10 - —
Wax, amorph. (see Wax microcrystalline).
Bayberry, bgs., spot lb. .40 - .43

—Continued on page 67

Toluol, Petroleum—Wax, Bayberry

This breastplate is a product of skillful 16th Century armor-making. The expert fitting and forming of this sturdy garment permit all the necessary mobility, while the superb carving and embossment reveal it as a true work of art. And most important of all, the studied design and careful workmanship assure maximum protection to the wearer.

J&L Steel Containers offer dependable protection for your products. They're built of sturdy, high-quality J&L Steel Sheet. Their careful construction insures perfect fit of all joints and movable parts. And they have a trim appearance which can be attractively decorated with colorful designs and illustrations by J&L's accurate lithographic process.

In addition, coatings and lacquers are evenly applied—both inside and outside; and J&L pails and drums are chemically treated to keep all surfaces clean and dry.

For the protection your products need, depend on J&L Steel Containers. You can order them through plants in leading industrial centers, and you'll find J&L service prompt and efficient.

Jones & Laughlin
STEEL CORPORATION
405 LEXINGTON AVE.
NEW YORK 17 N. Y.
J&L STEEL

Oil, Paint and Drug Reporter

Founded October 18, 1871, by William O Allison
Directed 1900-1942, by Harry J Schnell

Incorporating Drug Paint and Oil Trade, The New York Drug Bulletin, The Weekly Drug News, New York Druggists' Price Current The Soap Makers Journal, Oil and Paint Review, and International Petroleum Reporter.

Member of Audit Bureau of Circulations

Copyright 1955 by

SCHNELL PUBLISHING COMPANY, INC.
WILLIAM S AUCHINCLOSS, *President*
30 Church Street, New York 7, N. Y., U. S. A.
Telephone: REctor 2-9820: Cable Address: Reporter, New York

Volume 168 **July 18, 1955** **Number 3**

The Advice re FDA

One need not be especially qualified as a prophet in any sense of the term to be confident in predicting that the annual meeting of the food, drug and cosmetic law division of the American Bar Association, next month, is going to be much busier than was expected. He has adequate substantiation for such a prediction in the report made the week before last to the Secretary of Health, Education, and Welfare by the Citizens Advisory Committee on the Food and Drug Administration.

That report is not by any means wholly a pleasing recommendation, as set forth in the heading on page 3 of OPD for July 11, that the administration get more funds. Its import is far better to be got from the less prominently headed item starting on page 5. As a starter it must be noted that there are twenty-two paragraphs of recommendations on what FDA should do in the way of drugs and devices programs, even though the proposals do not get so far as to include what should be done when, as the very far-seeing experts are predicting, "the atom" is going to conquer all diseases.

There are many good objectives among those at which the twenty-two recommendations are aimed. Especially welcome to the drug industry—whatever may be the attitude of its legal counselors—are those having to do with more clarity and speed, closer communications with and more complete information to industry groups. Particular attention is given along those and other commendable lines to functioning with respect of new drugs.

As soon as possible after the food, drug and cosmetic lawyers have dealt with the citizens committee's ideas of what is needed with relation to FDA administrative policy and practice, the national groups of the three industries should tackle the report from practical business angles and endeavor to work out programs for doing what actually should be done to make the functioning of FDA smoother, faster, and more effective in, for example, the eight major projects enumerated by the committee in the field of drugs and devices. Today is not too soon to start a thorough study of the report by carefully selected units of each industry's national organization. Certainly, a collaborative report on it should be ready for the next meeting of the National Drug Trade Conference.

The major industries involved by the functioning of the Food and Drug Administration have as big a job with reference to this advisory report as they had in converting the Tugwell bill into a satisfactory federal statute. The citizens committee has come up with an extensive volume and variety of advice in a very important area of government-business relations. What is going to be done with it?

Furthering Plant Safety

Two moves by the government of the State of New Jersey offer deserved encouragement to the far-thinking leaders of industry who have been active in their recognition of the wisdom of constructing, promoting, and applying programs of plant safety. One of those moves was the establishment of a public law which permits the workmen's compensation rating and inspection bureau to adjust employers' premiums and rates under a merit system so that employers with a good safety record get reductions in premiums. On the basis of current records, the chemical companies in New Jersey will be especially benefited.

The other move was the planning of a two-year course in safety education for all technical and inspection personnel of the engineering and safety bureau of the Department of Labor and Industry. The course will be instituted September 22 in cooperation with Rutgers University. As a commentary on the relations of government and business, there is much to commend the statement of the head of the department in announcing the program. "If we expect industry," he said, "to improve the caliber of its personnel and safety men, the state should set the example."

The records of the national industrial campaign for plant safety make it quite clear that industry does not need the setting of an example by state or other government. But, any such association with the movement will be widely beneficial by way of moral support. It is earnestly to be desired—and promoted—that the two moves in New Jersey be followed in every other state. The primary motive should be humanitarian consideration. What might be politically more influential is the fact that plant safety can effect substantial reductions in the cost of compensation programs.

Hitching the Sun to Man's Needs

Under the temperature conditions of recent days in this part of the United States, it is not difficult for the man in the street to suspect that the planners of the World Symposium on Applied Solar Energy, scheduled for early November in Arizona, have something. As a sort of relief from the voluminous publicizing of atomic energy, he might find direct interest in a recent statement by Stanford Research Institute, one of the sponsors of the symposium:—"The sun showers the earth with thousands of times more energy than man uses. The roof of an average house in the United States intercepts about 500 times more energy than the electricity used by a typical American home."

Then, reading:—"This energy is free for the taking," he would have thoughts of how much he could save by getting Old Sol to work for him—only to be bumped on the head by the rest of the sentence—"but the taking is extremely difficult."

So it is that the world's scientists specializing in solar energy—which man used even before fire—are going to discuss such things as "Domestic Uses of Solar Energy," "Solar Stills" (not related to the moonshine type), "Converting Solar to Chemical Energy," "Solar Water Heaters" (the oldest application), and—strange as it may seem to the man on New York's sun-baked pavements—"Space Cooling with Solar Energy." There will also be talks on really scientific aspects, such as photovoltaic P-N couples, which have some sort of relation to the solar battery, said to have a relative efficiency "comparable with that of the best gasoline engines"—not in horsepower.

Anybody who has been in the really sunny sections of Arizona has heard many things about what solar energy—by various other names—has done in those parts, most of them not yet met up with by the scientists in their endeavor to "put to work the various ways individual molecules of the mineral and vegetable occupants of the earth's surface can react when struck by 'solar bullets'."

But, in all lines of human needs, from fuel to food, the sun, of itself, has done much good. If its potentialities can be directed as man desires—photosynthesis is looking in that direction—the atom can be left in those molecules, with advantages in numerous directions.

Going to Indonesia

There are several reasons why the United States intends to participate officially in the international trade fair to be opened August 18 in Jakarta by the Republic of Indonesia. The reasons are sufficient, apparently, to justify this first participation in that event. They have not been defined publicly; but it is generally assumed that they stem from the overall purpose of the federal government to make some changes in the practical application of its economic policy with relation to the Far East.

To what extent American private enterprise will go along with the official trade gesture toward Indonesia remains to be seen. The practical policy of business has been at least more realistic than that of government in that part of the world. But it is faced with the necessity of realizing that economic conditions in Indonesia have changed much in recent years. The changes, appraised on a broad basis, present some opportunities for American business; but they do not make them sufficiently evident because of a feeling that the only way in which those opportunities could be realized, that is, by means of reciprocal purchasing, would not be adequately accepted at this end.

The United Nations has found and reported that inability to pay, rather than any restrictions on shipments, is the reason for the lagging of purchasing by Eastern nations—including Soviet satellites—in the West. The same reason is behind the recent finding by the International Advertising Association that United States advertising abroad is growing at a faster rate than American exports or the sales of branches or subsidiaries in other countries. Of course, there are other reasons for that, one of them being the classical difference between advertising and sales-promotion.

There is a big idea behind the participation in the Indonesian trade fair. It derives from the fact that Dutch investment in the East Indies has been substantially reduced since the Netherlands colonial system there was disintegrated. The idea, obviously, is that American capital can find use in that part of the world. It can; but the determining of the question of what that actually would mean lies in what American business—the drug business is an outstanding example—will do for and with East Indian products. Participation in the Jakarta trade fair will not of itself provide the answer.

Washington Talks It Over

By Ralph L. Cherry
Chief, OPD Washington Bureau

Trade association executives and companies with representatives in Washington whose duties encompass the legislative activities of congress could profitably spend the coming summer recess of congress boning up on legislation slated for consideration next year proposing some material modifications in the lobby law of 1946.

Sen. John F. Kennedy of Massachusetts has a bill in the senate (S. 2308) to amend the law in a number of respects and plans to hold hearings on it next session. He is chairman of the senate subcommittee on reorganization and is in a position to push the bill to a favorable vote. Because the legislation is technical and affects the right of petition for or against bills pending in congress, it deserves close examination by those who will be affected thereby.

Amendments to the lobby act have become necessary largely as a result of a decision by the Supreme Court of the United States last year that sustained the constitutionality of the law, although it had to do some straining to do so. The majority opinion narrowly interpreted or rewrote many provisions, and a minority opinion strongly criticized the language or constitutionality of other provisions. Mr. Kennedy's aim is to put the law on firmer ground.

For example, the Attorney General is given the responsibility for enforcing the act and a copy of all registration and reporting documents must be filed with him. More precise terms are used and the definition of such terms as legislative agent is expanded and the terms of the act are extended "to make certain that it is not evaded by those at whom it is aimed."

The coverage of indirect lobbying is omitted from the law, as well as the prohibition against any lobbying either after a conviction or prior to registration; radio and TV stations are added to newspapers and regularly published periodicals under the exemption clause; and items of dubious constitutionality, including those which had to be stretched by the supreme court in order to prevent infringement of free speech, have been eliminated or rewritten.

Finally, the bill seeks for the first time to prohibit contingent fee lobbying contracts, whereby the compensation of lobbyists is dependent upon their "success" in securing the passage or defeat of particular bills. This practice is already outlawed under the lobby control laws of many states.

Regulatory Agencies' Probe

The organization and operations of the federal regulatory agencies and commissions of the government are to be placed under congressional scrutiny. The first of these will be the Federal Trade Commission, which is being made the subject of an investigation by a special subcommittee of the house small business committee.

Rep. Joe L. Evins of Tennessee, subcommittee chairman, points out that the federal regulatory agencies were established by congress to be independent of the executive branch of the government and to serve the public interest in accordance with guide lines laid down and the delegation of power granted by congress. One of the purposes of the investigation will be to determine whether they have ceased to be independent.

"If it proves to be true, as we frequently hear, that these supposedly-independent commissions have become political puppets on telephone wires leading from the White House, or from a political committee, then it is time we made the facts known," he says. "Business will then at least know where to go to plead its causes."

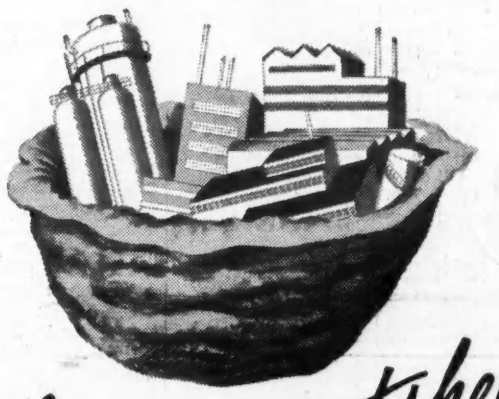
It will be recalled that the FTC, the first to be investigated, was reorganized only a few years ago under a plan which made the chairman responsible to the President, to serve at the pleasure of the President, and gave the chairman complete control and direction of the commission's staff.

Pakistan Bids Procedure

There seems to be an understanding among American suppliers that the Department of Supply and Development of Pakistan will entertain bids from foreign producers and suppliers only through Pakistani representatives. This impression is not correct.

The Ministry of Industries has informed the International Cooperation Administration (formerly Foreign Operations Administration) that suppliers are free to submit their bids direct or through their local representatives or in any other manner they may consider to be the best in the interest of their business. FOA was asked to give wide publicity to this fact so that more interest would be shown among suppliers in this market.

FMC CHEMICALS



in a nutshell

fmc Chemical Divisions

comprise

6 operating divisions

with

19 major producing facilities

in

13 states and Canada

employing

5713 people

to produce

over $100 million yearly

of

industrial and agricultural chemicals

fmc Chemical Divisions

FOOD MACHINERY AND CHEMICAL CORPORATION

Administrative Offices • 161 East 42 St., New York 17

Westvaco Chemicals
WESTVACO CHLOR-ALKALI DIVISION
New York, New York
Alkalis, Chlorinated Chemicals, Carbon Bisulfide

BECCO CHEMICAL DIVISION
Buffalo, New York
Peroxygen Chemicals

When You Buy Niagara You Buy Protection
NIAGARA CHEMICAL DIVISION
Middleport, New York
Insecticides, Fungicides and Industrial Sulphur

OHIO-APEX DIVISION
Nitro, West Virginia
Plasticizers and Chemicals

FAIRFIELD CHEMICAL DIVISION
New York, New York
Insecticides and Organic Chemicals

Westvaco Chemicals
WESTVACO MINERAL PRODUCTS DIVISION
New York, New York
Phosphates, Barium and Magnesium Chemicals

COLUMBIA-SOUTHERN®

SODIUM BICARBONATE U. S. P.

Powdered and Granular
100 lb. Paper Bags

COLUMBIA-SOUTHERN CHEMICAL CORPORATION
SUBSIDIARY OF PITTSBURGH PLATE GLASS COMPANY
ONE GATEWAY CENTER · PITTSBURGH 22 · PENNSYLVANIA

DISTRICT OFFICES: Boston • Charlotte • Chicago • Cincinnati Cleveland • Dallas • Houston Minneapolis • New Orleans New York • Philadelphia • Pittsburgh • St. Louis • San Francisco

SODIUM BICARBONATE, U.S.P.
Specialized Grain Sizes
MONOHYDRATE OF SODA
SAL SODA CARBONATE OF SODA CRYSTALS
Technical Service
CHURCH & DWIGHT CO., INC.
70 Pine Street • New York 5, N. Y. • Phone Digby 4-2181

Highest in quality!
Physically uniform!
Chemically pure!
Wyandotte Soda Ash is wonderful!
Widespread distribution — strategically located!
Quick, economical delivery —by bag or carload!
Technical service men await your call!
Sixty-four years experience producing Soda Ash!
For Soda Ash, call on Wyandotte!
Wyandotte CHEMICALS
HEADQUARTERS FOR ALKALIES
WYANDOTTE CHEMICALS CORPORATION, WYANDOTTE, MICHIGAN • Offices in Principal Cities

Heavy Chemicals

Varied activity among nonferrous metals continued to highlight the market last week. The mercury market plunged lower, as consumers remained on the sidelines. Tin and silver bullion were higher, and reached new highs for the year during the week. The copper strike continued last week, and the government began to study ways and means of allocating supplies if the strike should be of any length.

A strike of one plant of an alkali manufacturer was thought to have had little or no effect on supplies of most of the alkalies. However, some pinch was noted in chlorine, although it was thought to be of a temporary nature. Borax and boric acid prices were scheduled to be increased by a major producer effective September 1.

Steel, rubber, rayon, paper and pulp manufacturers continued to operate at peak schedules in many instances however, and as a result good call was noted for caustic soda and several of the mineral acids. Phosphoric acid was still in reasonably good supply, although a strike has hampered production of phosphate rock and other phosphatic materials in Florida since June 1.

The American Paper and Pulp Association reported production for the week ended July 15 at 62.4 percent of theoretical capacity, as compared with the revised figure of 95.1 percent for the previous week and 50.4 percent for the corresponding week of last year.

Acid, Chromic—Prices were held without change since freight equalizations of a few weeks ago brought about due to the opening of a new chromic acid plant in the midwest. Consuming demand was moderately good for delivery against contract commitments, although producers noted a seasonal slackening in some quarters.

Acid, Hydrochloric—Buying interest was holding up well in some areas, and entering a summer slow period in others. The steel industry continued to recover sharply from its short strike of two weeks ago, and as a consequence, demand from mills and fabricators showed some improvement.

Production of hydrochloric acid was quite heavy in May, according to preliminary figures compiled by the Bureau of Census. Output of hydrochloric acid (100% HCl) in May was 69,662 tons, as against a total of 59,226 tons in April, or an increase of 18 percent over April output. The rise in production was attributed to heavier output of chlorinated hydrocarbons in May, and consequent greater output of byproduct acid.

Acid, Nitric—Demand continued good, but there was no pressure placed on production during the week, and supplies were judged more than adequate to meet current needs. A decline of 5 percent in output of nitric acid in May was reported by the Bureau of Census. In May, some 191,743 tons of acid were produced, as compared with 201,956 tons in April.

Acid, Phosphoric—There appeared to be plenty of material around to fill current needs. Producers still did not show too much concern over the phosphate strike in Florida; some because their raw materials were derived from deposits in other states not affected by the strike, and others because even though they were affected by the dispute, they were still able to manufacture acid at plants outside the strikebound area, or were able to make and ship acid on an emergency basis using supervisory help. While the walkout affected five major producers, the trade pointed out that two producers were still in operation.

Production of phosphoric acid declined in May to 306,851 tons from 311,551 tons produced in April, according to the Bureau of Census. The decrease in May production amounted to 2 percent under April figures.

Acid, Sulfuric — Demand continued strong in the east, according to some suppliers in that area. One source said that supplies could be considered tight. The revival of the steel industry during the past two weeks was a key factor in keeping buying interest at a high pitch. Steel output for last week was estimated at 92.5 percent of capacity, or 2,233,000 tons, as against actual production of 2,073,000 tons, or 85.9 percent of capacity two weeks ago, and 1,534,000 tons one year ago last week.

Borax—A major producer scheduled increases of $1 per ton for 10-mol, $1.25 per ton for 5-mol, and $1.50 per ton for anhydrous borax in bulk, to be effective September 1. An increase of $1.50 per ton for boric acid was also scheduled. Over and above increases in bulk prices, bagged material was raised $1 per ton across the board. This was the first increase in borax since May, 1953.

Bromine—Demand over the last few weeks was said to have been featured by steady volume consumption by manufacturers of halogenated hydrocarbons. Last week, however, buying interest appeared to be only fair, with moderate activity. Prices were stable and unchanged. Supplies and production were well able to keep up with consumer needs.

Calcium Chloride—Producers noticed a slowdown in buying interest last week. This was not to say that demand was dull; it was reported that where formerly shipments had been running two to three days late in some instances now deliveries were about on schedule. It was expected that demand would slowly diminish over the next few weeks as consumers built up inventories for use in dust control on secondary roads.

Chlorine — Supplies were not lengthy during the week and in some sections consumers felt the pinch of a strike at one plant of an alkali producer in the midwest. However there were some indications that supplies were due to become easier in the near future owing to slower operational schedules in consuming plants during the remainder of the summer.

Production of chlorine gas in May increased to 294,847 tons over April's 235,158 tons, according to the Bureau of Census. The increase in May amounted to 25 percent over the April figure.

Copper Sulfate—The copper strike continued last week, and it was reported that at least one plant in the southwest was shutdown because of the dispute. However, manufacturers in the northeast and southeast were operating full tilt in order to keep up with active consuming demand. Agricultural inquiry was strongly maintained, particularly in the northeastern section. Industrial demand was well held, and shipments were being made from ten-day or less inventories in the hands of producers.

Epsom Salt—Demand for epsom salt continued in normal channels during the week, and showed little change from business patterns which have been long established. Producers pointed out that they were still having trouble in some scattered instances with imported material which could be offered at highly competitive prices.

Potash, Caustic—Buying interest eased off following the usual trend of business at this time of year. Supplies were readily available for prompt requirements. Prices were unchanged.

Potassium Carbonate — Demand from the specialty glass industry, notably for television tube manufacture, was said to have tapered to some extent during the week, following normal seasonal patterns. However, producers indicated that consuming demand was holding up moderately well. Supplies were plentiful.

Soda Ash—Consuming demand for light and dense ash was not as brisk as previously. It was generally felt that consuming industries were adapting production schedules to vacation periods, and as a result, were cutting back on orders. This situation appeared to apply to the glass industry, which was not as active in production as previously, and to the phosphate industry, which was not only affected by the usual summer slump, but a strike as well.

The labor dispute currently affecting one plant of a major alkali producer was not expected to have much overall effect on the soda ash supply position.

Soda, Caustic — Considering current heavy output of chlorine and consequent high output of electrolytic caustic soda, producers were generally pleased with

For Late Market Developments, See Page 4

Price Trends

Advanced

Potassium stannate, 0.7c. per lb.
Silver ⅝c. per oz.
Sodium stannate, 0.9c. per lb.
Stannic chloride, 0.9c. per lb.
Oxide, 2¼c. per lb.
Stannous chloride, anhyd., 1.2c. per lb.
hydrous, cryst., 1c. per lb.
Sulfate, 1.2c. per lb.
Tin, 1½c. per lb.

Reduced

Mercury, $5 per flk.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	July 16, 1954
98.40	98.40	98.33	98.49

(For Current Prices see Page 9)

Looking for a high-purity MURIATIC ACID?

Check these 2 Hooker grades against your process requirements

You can get *high purity*—or *very high purity*— in the muriatic acid you buy, simply by specifying one of these Hooker grades of muriatic:

1. **Commercial Grade** is a clear light yellow solution containing no arsenic, and only a trace of free chlorine, not more than 0.0005% iron, only 0.003% sulfates. If you've been paying a premium for muriatic acid, consider the savings this high-purity Commercial Grade can give you.
2. **Hooker White Grade** is a clear water-white solution. It contains no arsenic, no free chlorine, and only 0.003% sulfates. Iron content is reduced to not more than 0.0001%.

You can get either grade in three strengths: 18°, 20°, and 22° Baumé. Tank car shipments come to you in rubber-lined tank cars, carefully inspected before each shipment. You can have tank wagon or carboy quantities direct from Hooker, or from a strategically located stock point or authorized jobber's warehouse near you.

Why not investigate today the advantages—process-wise, price-wise—of Hooker muriatic acid in the grade that suits you best?

For technical data, samples, and shipping information, phone the Hooker sales office nearest you. Or write today for:

☐ Technical data on Hooker muriatic acid.

☐ Convenient dilution table, to save time in mixing various concentrations of muriatic acid, in any quantity.

☐ General Products List No. 100 listing Hooker products and services.

From the Salt of the Earth HOOKER CHEMICALS

HOOKER 4-2259
ELECTROCHEMICAL COMPANY
1 FORTY-SEVENTH ST., NIAGARA FALLS, N. Y.
NIAGARA FALLS • TACOMA • MONTAGUE, MICH.
NEW YORK • CHICAGO • LOS ANGELES

the way caustic was moving to consumers. It was pointed out that strong demand by rayon and film, as well as paper and pulp producers had, among other factors, kept stocks from becoming burdensome to producers.

Preliminary figures released by the Bureau of Census for May show that electrolytic caustic soda output of 295,602 tons in May was twenty-five percent higher than the 236,311 tons produced in April. Lime-soda caustic showed a decrease of two percent, May output being 40,952 tons, as compared with 41,955 tons in April. Trade sources attributed the sharp rise in production of electrolytic caustic soda in May to the ending of a strike in the southwest.

Sodium Nitrite—The market was easier last week. It was felt that the summer slowdown had had some effect on trade. Supplies were readily available at unchanged prices.

Tin Chemicals—Tin salts were higher last week following increases in metal. Potassium stannate was listed at 69.3c. to 75.9c. per pound; sodium stannate, 56.2c. to 61.6c. per pound; stannic chloride, 77.6c. to 78.6c. per pound; stannous chloride, anhydrous, 83.6c. to $1.104 per pound; hydrous crystals, 78½c. to 79½c. per pound, and stannous sulfate, 95.3c. to 99.3c. per pound. Oxide was also higher, at 97¾c. to 98¾c. per pound.

Nonferrous Metals

Aluminum—Labor and management began bargaining last week at the works of a major producer. Talks were slated to begin today at another company. It was felt that an early settlement was desirable even though present contracts run until July 31, due to the currently strong demand for aluminum and its products which has kept supplies tight despite record-breaking production and government releases from stockpiling.

Copper—The strike at domestic mines and smelters continued last week. The supply position remained critical. Spot electrolytic copper was firm and unchanged at 36c. per pound, delivered. The London market was slightly higher, at the American equivalent of 42 5/6c. per pound at one time during the week. No. 2 scrap continued at the high price of 35½c. per pound, only ½c. per pound under primary copper metal.

Magnesium—The Magnesium Association reports that primary production of magnesium ingot in May returned to more normal levels after the sharp drop in April brought about by a strike at the works of a major producer.

May primary ingot production amounted to 4,227 tons, bringing the total five-month output to 20,763 tons, as against 31,511 tons registered for the like period in 1954. Output in May was approximately 185 percent greater than that in April, but 33 percent below the figure for May, 1954, and nearly 25 percent under the monthly average for last year.

May shipments of wrought magnesium totaled 971 tons, bringing the five-month total for 1955 to 4,535 tons, or an increase of 70 percent above the 1954 total. Shipments in April totaled 878 tons.

Mercury—The market continued to sag. Metal was quoted at $270 to $272 per flask, spot, with prices expected to go lower.

Silver—The market climbed to 90¾c. per ounce, spot.

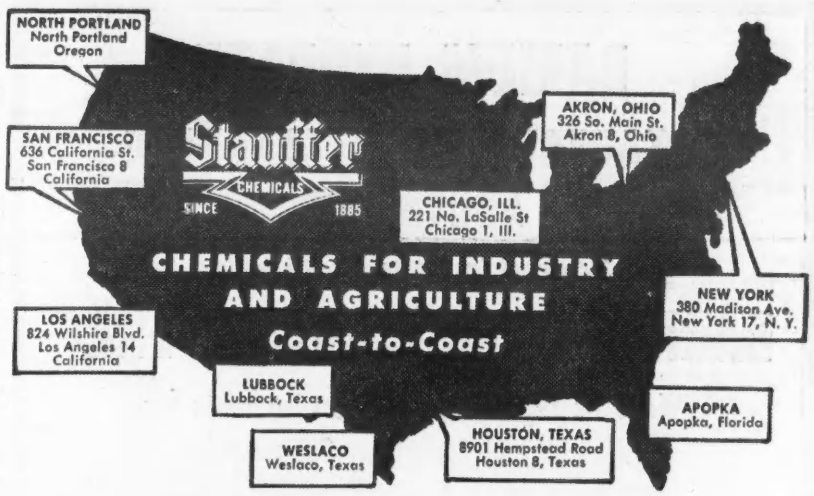
Tin—During the week the tin market reached a high for the year, rising to 96½c. per pound, spot. By Friday, straits metal was quoted at 96¾c. asked, spot, slightly higher.

Sulfur Development Told By Stauffer Chemical Co.

Stauffer Chemical Company, New York, has developed new surface-conditioned sulfurs with free-flowing and blending characteristics which are claimed to be better than any conditioned sulfur offered commercially in the past. Special surface treatment promotes more rapid blending during rubber compounding and greatly reduces "dusting" and attendant hazards from static-induced fires, Stauffer claims.

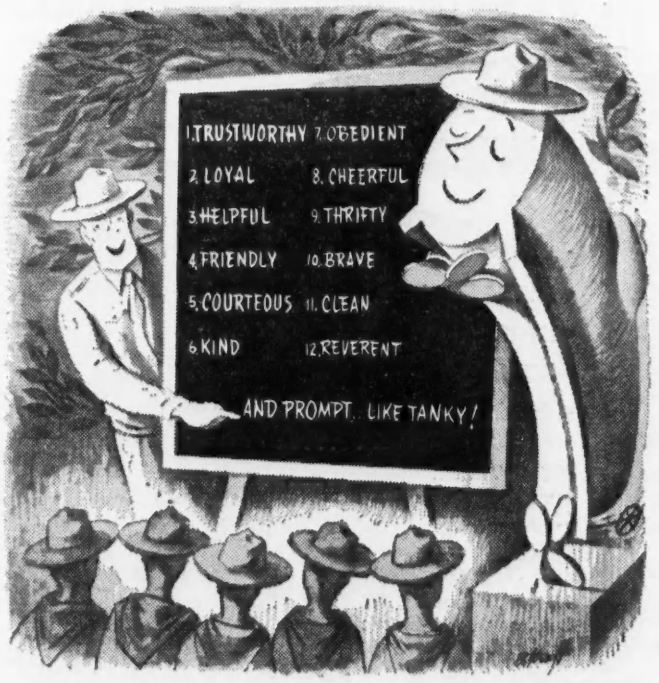
These sulfurs are said to be particularly helpful and desirable when compounding polymers that are difficult to break down and mix. The process is a departure from the magnesium carbonate treatment which has been standard in the past.

The conditioned grades are available under Stauffer's "Tire-Brand" trademark. The mesh specifications on the conditioned sulfurs correspond to standard grades. "Tire-Brand" 21-13 is a 93-95 percent through 325 mesh material and "Tire-Brand" 21-14 is a finer grade passing 98 percent through 325 mesh. Samples and commercial quantities of either grade are available from Stauffer.



POTASH ALUM
Technical or photographic quality
lump • nut • pea • granular • powdered
bags • barrels • LCL • carloads
CONSOLIDATED CHEMICAL INDUSTRIES INC.
Address inquiries to: 640 Esperson Bldg., Houston 2, Tex.; or 380 Madison Ave., New York 17, N. Y.

Spencer Service is Wonderful



SPENCER
America's Growing Name in Chemicals
SPENCER PRODUCTS: "Poly-Eth" Polyethylene • Ammonia (Commercial and Refrigeration Grade) • Aqua Ammonia • 83% Ammonium Nitrate Solution • Synthetic Methanol • Formaldehyde • Hexamine • "Mr. N" Ammonium Nitrate Fertilizer • SPENSOL (Spencer Nitrogen Solutions) • FREZALL (Spencer Dry Ice) • Cylinder Ammonia
Spencer Chemical Company, Dwight Bldg., Kansas City, Mo.
Works: Pittsburg, Kas. • Henderson, Ky. • Chicago, Ill. • Vicksburg, Miss. • Orange, Texas

BARIUM HYDRATE

OCTAHYDRATE-PENTAHYDRATE-ANHYDROUS

Packed in Bags or Barrels

BARIUM OXIDE-CARBIDE FREE

Write us regarding your requirements for Barium and Strontium Compounds

BARIUM & CHEMICALS, INC.
WILLOUGHBY, OHIO Telephone Willoughby 2-5151

SILICATE OF SODA
40° and 60°
EXPORT — DOMESTIC
TURPENTINE — LINSEED OIL — MINERAL SPIRITS
CHAS. L. READ & CO., Inc., 1 Newark Ave., Jersey City 2, N. J.
Telephone WOrth 4-1131-2-3 DElaware 2-2062-3

Manufacturers of
Red and Black **COPPER OXIDE**
COPPER SCALE
ROBERT A. COUPE, 260 Rhode Island Ave., PAWTUCKET, R. I.
Telephone PAwtucket 3-4944

ALL RUBBER DRUM

SAFE AND EASY TO HANDLE!
NO BREAKAGE
NO METAL

for
- MURIATIC ACID
- HYDROFLUORIC ACID
- FERRIC CHLORIDE
- CORROSIVE LIQUIDS

★

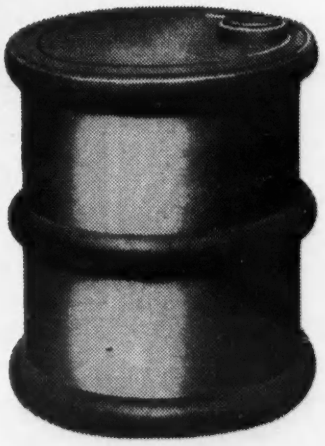
ICC-43A SPEC.
Tare Weight—34 lbs.
13 gallon capacity

★

Made with Natural, Neoprene, Butyl or other Synthetic Rubber Linings

★

Threaded or Stopper type closures



GENERAL

THE GENERAL TIRE & RUBBER COMPANY
MECHANICAL GOODS DIVISION
WABASH, INDIANA
Distributed by **THE C. P. HALL COMPANY** 5149 W. 67th St., Chicago 38, Ill.
AKRON, O • CHICAGO, ILL. • NEWARK, N. J. • LOS ANGELES, CAL.

Aluminum, Nickel Quotas Set for Quarter Exports

Third-quarter export licensing of new and old aluminum scrap, including remelt ingots, will be limited to a quota of 5,000 short tons, the Bureau of Foreign Commerce announced last week. At the same time, the bureau stated that third-quarter export licensing of nickel-bearing scrap will continue under the policy established in the second quarter.

The third-quarter quota for aluminum scrap, which reflects the tight domestic supply situation, represents a reduction of 4,000 short tons from the 9,000-ton quota set in the previous quarter. Distribution of this quota among exporters will be made on the historical licensing basis already in effect. No quantitative limitation has been placed on exports of primary and secondary ingots.

Under the bureau's nickel export quota policy, exporters are required to submit evidence of unsalability in the domestic market in support of applications to export the following commodities: — Clean nickel alloy scrap containing less than 50 percent nickel, contaminated nickel alloy scrap, nickel-copper alloy scrap, and contaminated nickel-bearing stainless steel scrap. (Schedule B. No. 654502); clean cobalt scrap containing less than 50 percent nickel, and contaminated nickel-bearing cobalt scrap (B No. 664526).

Bids Wanted

Acetone, 9,000 gals., inv. 1, July 20, Contracting Officer, Picatinny Arsenal, N. J.

Calcium hypochlorite, 600 #5 cans, inv. DA-43859, July 19, Gen. Services Adm., Business Service Center, 1114 Commerce, Dallas, Tex.

Drugs, 800 boxes theophylline injection, 8,160 boxes phenobarbital sodium injection, 480 boxes pituitary posterior injection, 2,688 boxes progesterone injection, 446,408 bots. procaine hydrochloride injection, inv. 835-B, July 18, Armed Services Med. Procurement Agency, 84 Sands St., Bklyn. 1, N. Y.

Ethyl alcohol, 365,915 gals., specially denatured, East & West Coast, inv. 383-1092, Aug. 4, Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

Fertilizers, 95,000 metric tons nitrogenous fertilizers, 30,000 metric tons phosphate fertilizers, 5,000 metric tons potash fertilizers, OSROK, inv. 64, July 21, (SBC ±) Korean Embassy, 2322 Massachusetts Ave., N.W., Washington, D. C.

Paint, 600 gals. enamel, 60 gals. flat wall oil paint, 400 gals. turpentine, gum spirits, 1,200 gals. enamel thinner, inv. DA-43829, July 19, Gen. Services Adm., Business Service Center, 1114 Commerce, Dallas, Tex.; 51,000 gals. interior, semi-gloss enamel, East & West Coast, inv. 383-1079, July 20, 6,430 gals. moisture and fungus-resisting varnish, type 2, East & West Coast, inv. 383-1100, Aug. 4, Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.; 1,024 gals. ready mixed, latex base, interior flat, white paint, type I, inv. 3T-63885, July 26, 640 gals. latex base paint, interior flat, type I, inv. 3T-64218, July 26, Gen. Services Adm., Business Service Center, 7th & D Sts., S.W., Washington, D. C.

Rock salt, inv. 13450, July 25, Gen. Services Adm., Region 6, Business Service Center, 2306 E. Bannister Rd., Kansas City 14, Mo.

Sodium metasilicate, 285 100-lb. dms., anhydrous, tech., inv. I, July 21, San Francisco Chem. Procurement District, San Francisco, Calif.

Sodium thiosulfate, 20,400 lbs., photographic, inv. 2B-54142-R, July 22, Gen. Services Adm., Business Service Center, 7th & D Sts., S.W., Washington, D. C.

ACS Next National Meeting

—Continued from page 7

and combustion and president of the Atlantic Research Corporation, Alexandria, Va., will preside. This division also will hold a symposium on "The Utilization of Low Grade Mineral and Fuel Materials" under the leadership of A. J. Madden, jr., of the University of Minnesota.

Use of Closed-Circuit TV in Teaching

"The Use of Closed-Circuit Television in the Teaching of Chemistry" is the title of a symposium to be arranged by the division of chemical education, according to Dr. Calvin A. VanderWerf of the University of Kansas, chairman of the division.

The chemistry of immunization will be the topic of a symposium of the division of biological chemistry. Dr. Jesse P. Greenstein, National Cancer Institute, Bethesda, Md., is chairman of the division. Robert T. O'Connor of the Department of Agriculture's Southern Regional Research Laboratory will preside at a symposium of the division of paint, plastics and printing ink chemistry on "The Chemistry and Physics of Drying Oils and Resins."

Dr. John C. Sheehan, professor of chemistry in the Massachusetts Institute of Technology and 1951 winner of the American Chemical Society award in Pure Chemistry, and Dr. Byron Riegel, director of chemical research of G. D. Searle & Co., Chicago, are co-chairmen of a symposium of the division of medicinal chemistry on "New Experimental Technics in Organic and Medicinal Chemistry." A symposium on "Steroids and Cancer," also will be held by this division, of which Dr. Martin T. Leffler, associate director of research, Abbott Laboratories, North Chicago, Ill., is chairman.

"The Use of Additives in Petroleum Fuels" is the topic of a symposium of the division of petroleum chemistry under the leadership of Dr. Jerry McAfee, chemical engineer of the Gulf Research & Development Company, Pittsburgh, Pa. Dr. Malcolm M. Renfrew, head of the department of chemistry of General Mills, Inc., Minneapolis, Minn., will preside over a symposium of the division of chemical marketing and economics on the subject of "Marketing the Products of Oil Seeds."

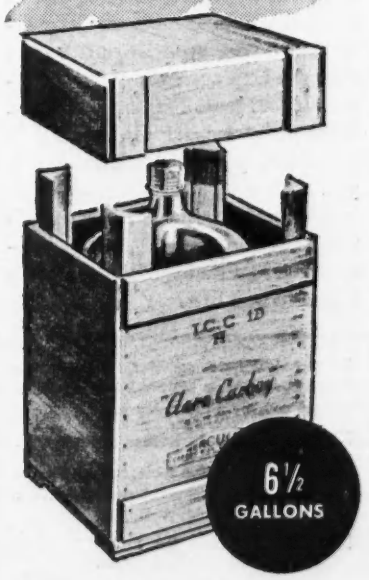
Other symposia and general scientific sessions are planned by the society's divisions of analytical chemistry, carbohydrate chemistry, cellulose chemistry, chemical literature, colloid chemistry, fertilizer and soil chemistry, gas and fuel chemistry, history of chemistry, organic chemistry, physical and inorganic chemistry, polymer chemistry, and water, sewage and sanitation chemistry.

Chemical Producers Service Buys Facility in New Jersey

Chemical Producers Service, Inc., has acquired the plant at Port Reading, Woodbridge, N. J., formerly owned by Petroleum Solvents Corporation. The new owner will operate the plant as a liquid chemical storage terminal with facilities for private label packaging, drumming, canning, blending, laboratory research and formula development. The plant includes a tank farm, rail siding and automatic high speed packaging equipment as well as a pipeline and pump system.

Potassium Nitrate
99/100%
•
Apartado Postal 10.332.
Mexico DF.

HERCULES
CORK CUSHIONED
Aero
RUBBER CUSHIONED
CARBOY BOXES



Treen manufactured 5-6½- and 13 gallon carboy boxes are quality built in accordance with ICC regulations, with features that give all-point protection; reducing hazards and breakage, ease in handling and compact loading.
WRITE FOR COMPLETE DATA

TREEN BOX CO.
MEMPHIS AND TIOGA STS.
PHILADELPHIA 34, PA.
"Aces in cases" FOR OVER 50 YEARS

House, Senate Groups Approve Fall Shots

—Continued from page 3

and will enable the agency to hire about forty-eight investigators and twelve clerks to oversee distribution of the vaccine and prevent the development of a black market. It will be their duty to keep track of the distribution of the vaccine, to make sure that it stays in drug channels, and, if it does not, to report it and institute legal action.

In testimony before the appropriations committee on this item, George Larrick, commissioner of FDA, said that the program of enforcement will differ somewhat from that of other enforcement programs in that the FDA plans to step in and make spot checks on distribution to make sure that none is finding its way into black-market channels, whereas in the case of other drugs enforcement, action usually stems from a complaint made to the agency.

Enforcement Program Explained

He said that a voluntary arrangement has been made between the Public Health Service and the vaccine manufacturers whereby they will report where they have distributed the vaccine and the FDA will, from time to time, spot check. His testimony on the enforcement program also developed the following colloquy with Rep. Antonio M. Fernandez of New Mexico, relative to FDA's authority to examine records:—

Mr. Fernandez. The manufacturer reports?

Mr. Larrick. That is right.

Mr. Fernandez. What about the wholesaler?

Mr. Larrick. It ordinarily would be a wholesaler. The wholesaler will keep a record of these drugs. Our function would be to step in occasionally and run some of these lots through so that we would be in position to assure the Surgeon General and secretary that distribution is in accordance with the preconceived plan of the Public Health Service.

Mr. Fernandez. Is that true of all these drugs covered by this law?

Mr. Larrick. No; the usual method of enforcing the Durham-Humphrey law is to act on complaints. We have so many complaints on sleeping pills and that type of drug used for nonmedical purposes that we cannot handle all of our complaints. So we start at the other end on those and when we get a complaint of illegal sale, we start at that end.

Mr. Fernandez. Are not manufacturers under that law required to keep a record showing to whom they sell, and the quantities?

Mr. Larrick. No; they are not.

Mr. Fernandez. And the wholesalers are not required to keep any record?

Mr. Larrick. There was hot and heavy debate on some of those features when the Durham-Humphrey law was up for discussion and later when the supreme court invalidated our factory-inspection procedure.

Mr. Fernandez. So that the only one who cannot violate the spirit of the law with impunity is the retailer; is that right?

Mr. Larrick. There is a difference. If they divert it from drug channels at any stage, it is illegal, and if we can prove it we can prosecute, but we do not have the power under the statute to go in and say, "You must show us your books."

Mr. Fernandez. There is a requirement that they keep books?

Mr. Larrick. There is a requirement that the retail druggist keep books, but, as the law stands, we cannot require them to let us see them.

Mr. Fernandez. The wholesaler does not have to keep books?

Mr. Larrick. He does not but as a matter of course, for business purposes, he keeps books and they have all agreed, as I understand, to keep careful books on this product and let them be seen.

Mr. Fernandez. That is by special arrangement; not by law.

Mr. Larrick. That is right.

Pesticide Tolerance Rules Amendment Is Announced

The Food and Drug Administration last week announced the adoption of the following amendment to its regulations relating to tolerances for pesticide chemicals on vegetables regarding the fees applying to the setting of tolerances:—

Sec. 120.33 Fees * * *

(d) Each petition or request for an exemption of a temporary exemption from the requirement of a tolerance, a temporary tolerance, or the amendment or repeal of a tolerance or exemption shall be accompanied by a deposit of $500, unless it meets the requirements of subparagraph (1) or (2) of this paragraph.

(1) Such deposit is not required when, in connection with the change sought under this paragraph, a petition or request is filed for the establishment of new tolerances to take the place of those sought to be amended or repealed and a deposit is made as required by paragraph (a) or (b) of this section.

(2) A request for a temporary tolerance for a pesticide chemical which has a tolerance for other uses at the same numerical level shall be accompanied by a deposit of $50 for clerical handling and initial administrative review plus $50 for each raw agricultural commodity on which the temporary tolerance is sought.

Sonneborn Appoints Baer To Building Products Post

Appointment of Alvin S. Baer as general manager of the building products division of L. Sonneborn Sons, Inc., has been announced by company president Rudolf G. Sonneborn. Mr. Baer formerly directed the activities of the A. C. Horn division of Sun Chemical Corporation. In his new position with Sonneborn, he will be responsible for sales and administrative activities of the Sonneborn division.

Mr. Baer spent more than twenty years with A. C. Horn Company, becoming vice-president. When the Horn company became a division of Sun Chemical, he was named chairman of the corporation's paint group and a member of Sun's corporate management committee. In his association with Sonneborn, Mr. Baer will fill the vacancy left by the recent death of Alexander Rubin.

HALBY
Offers
HIGH-PURITY
Synthetic
AMMONIUM
THIOCYANATE

Through expanded facilities, increased production, and superior service Halby Chemical Co. can meet your most exacting requirements in crystal AMMONIUM THIOCYANATE.

Halby, a leading manufacturer of Ammonium Thiocyanate solution 50-60%, is now producing snow-white, high purity, synthetic Ammonium Thiocyanate technical crystals. Prompt deliveries assured on large or small quantities.

•

Technical information on our complete line of thiocyanates upon request.

•

HALBY CHEMICAL CO., Inc.
WILMINGTON 99, DELAWARE

Anhydrous Ammonia
Refrigeration Grade • Commercial Grade
Available in
10,000-gallon Tank Cars, 150, 100, 50-lb. Cylinders

Other Nitrogen Division Products

Ammonia Liquor	Ethanolamines
Ammonium Nitrate Solutions	Formaldehyde
Ammonium Sulphate	Methanol
Anhydrous Ammonia	Mixed Oxides
Industrial Grade	Nitrogen Tetroxide
Refrigeration Grade	ARCADIAN® Nitrate of Soda
Ethylene Glycols	U. F. Concentrate-85
Ethylene Oxide	Urea

NITROGEN DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 Rector Street, New York 6, N. Y.
Hopewell, Va. • Ironton, Ohio • Orange, Tex. • Omaha, Neb.

CHEMICAL IRON
GROUND TO SPECIFICATION
GAS PURIFYING MATERIALS CO. INC.
3-15 26th Avenue, Long Island City 2, N. Y.

WIDE-OPEN SPACES

Right now we have quite a few distributors for BFC Chromic Acid. Nice, honest, competent folks who stick to their territory, give good service and make a fair profit to boot. But there are still a few open spots where our good product can also be sold in respectable volume on its merits.

If BFC Chromic Acid isn't being sold in your area, perhaps we ought to talk things over. The phone is MArket 4-6700 at Newark, N. J., the man to ask for is Myron Bryant.

PAINTS · PLASTICS · CHEMICALS BFC

BETTER FINISHES & COATINGS, INC.
268 Doremus Avenue
Newark 5, N. J.
122 East 7th St.,
Los Angeles 14, Calif.

AMMONIUM BICARBONATE
PRODUCED IN PHILADELPHIA BY
HENRY BOWER CHEMICAL MFG. CO.
30th AND GRAYS FERRY RD. PHILADELPHIA 46, PENNA.

Greeff
SERVING THE CHEMICAL INDUSTRY SINCE 1880

MALONIC ACID

Pure and Technical Grades

Manufactured by
AMERICAN BIO-SYNTHETICS CORP.

R. W. GREEFF & CO., INC.
10 ROCKEFELLER PLAZA, NEW YORK, N. Y.
TRIBUNE TOWER, CHICAGO, ILLINOIS

DIACETYL
MONOMERIC LIQUID WITH
97% MINIMUM ASSAY
MELTING POINT -5° (MIN.)

ACETYL METHYL CARBINOL
(ACETOIN)
CRYSTALLINE SOLID WITH
90% MINIMUM ASSAY

WRITE FOR LATEST PRICE SCHEDULES
WAREHOUSE STOCKS CONVENIENTLY LOCATED THROUGHOUT THE COUNTRY

LUCIDOL DIVISION
WALLACE & TIERNAN INCORPORATED
BUFFALO 5, NEW YORK

Industrial Organic Chemicals

Price Trends

Advanced
None

Reduced
Ethyl silicate, 40% SiO_2, 3c. per lb.
Tetraethyl orthosilicate, 2½c. per lb.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	July 16, 1954
130.96	131.03	130.70	131.89

(For Current Prices see Page 9)

Ethyl silicate, 40 percent SiO_2, was reduced 3 cents while tetraethyl orthosilicate came down 2½ cents. Otherwise, the price pattern for industrial organics was undisturbed. Changes which had been made July 1 were now a part of the market. No noticeable easing of demand was reported where the schedules went up.

Demand was quite steady in most quarters. There was some slowing down last week as consuming industries, such as textiles or the paint industry, closed down for vacations. Some of these closings were expected to result in a normal seasonal lull or reduced pressure where markets were tight before. Many trade people believe that vacations will have less telling effects on the markets this year because of the momentum to business. Advance orders for many materials are good. Some consumers merely asked for delays in shipments. There were also instances where a buyer wanted material quickly so that they would have working stocks when they got back into production.

Among ketones, acetone and MEK moved very well for solvent uses. General activity for lacquer materials held up. Butyl acetate moved well in that direction too. The call from resins has shown no letup for formaldehyde or PE. Refined glycerine has also been enjoying synthetic resin demand.

Carbon tetrachloride received good interest from propellents and refrigerants. There was additional demand from dry cleaning, which is presently in the height of its season, and cold degreasing applications. There was enough formic acid to meet demand, trade sources related. Methanol moved excellently to industrial outlets and was being shipped to canners for antifreeze use. Oxalic acid has sold at a sustained volume all this year. Vinyl acetate monomer moved well and retained steady prices.

Acetic Acid—The past week was much slower for textile fields and many materials moving in that direction. Vacation periods in textiles and other outlets were reducing immediate needs. However, glacial acid was still moving very well. Demand in the first half of the year was much better for acetic acid and was expected to maintain its level. Prices were relatively firm at current listings.

Acetone—The market was holding up very well at 7c. per pound for tankcar quantities. General solvent demand was still good and material was moving at a good clip. There was more than adequate production to take care of acetone consumption needs. But, the market was presently felt to be in a tenable position.

Alcohol—The Federal Facilities Corporation announced that 3,800,000 gallons of ethanol were sold of the 10,600,000 gallons offered by FCC June 13. Negotiations for the remaining 6,800,000 gallons were under way and expected to be completed within the next ten days. See news story elsewhere in the paper. Removal of this volume of material had the tendency of firming up the picture, whereas it might have softened the market a bit, if it were not removed, trade sources felt.

Bromochloromethane — Market quotations of this material used for fire extinguisher production are now being carried in OPD's price section. Current schedules call for 48c. per pound in drums, carlots on a freight equalized basis. Less than carlot quantities were quoted at 50c. per pound.

Producers indicated that market activity is good. And, the material is building up a good volume of business for itself in fire extinguisher use.

Butyl Acetate — Demand for solvents from lacquer outlets was still quite good. Producers were moving all of their butyl esters in this direction in an even pace. What was being made was being sold. And, trade sources considered the market to be in a firm position. Prices were steady and unchanged.

Carbon Tetrachloride — Producers reported that they continued to do a good business in this chlorinated solvent. Demand from propellant and refrigerant outlets was still very good. There was also some business being done in dry cleaning solvent outlets, and a little demand for use as a cold degreasing solvent.

Propellants and refrigerants, the big volume markets for carbon tetrachloride, grew as various new uses for propellants came up and expansion of the market for room air conditioners took place. These outlets have overshadowed the industrial solvent applications in recent years, but, some of the solvent uses persist and represent a satisfactory volume of business. Price schedules were firm at 9c. per pound in tankcars, the level first established on April 1. The 9c. price was the consumer price east of the Rockies on a freight allowed basis.

Ethyl Silicate—The grade with 40 percent available SiO_2 was reduced 3c. per pound, it was announced late last week. New quotations were at 47c. per pound tankcars, 49c. per pound in carlots of drums, and 50c. per pound in less than carlots, all on a delivered basis.

Formaldehyde — In general, producers described the market as being in short supply and enjoying a strong demand. Demand from synthetic resin producers is holding up strongly.

A strike that developed at one producer's plant showed potential for aggravating an already tight market. It was too early to tell what the precise reaction would be, or how long the dispute will last. Opinions in the trade differed as to its effect on the market. While there were those who felt it will tighten up, it was also said that July being a normally slow month, with vacation shutdowns throughout the trade, the effect would be dampened and less severe. Some shipments were being made from stocks on an equitable basis and no consumer pressure has developed, it was added.

Formic Acid—There was abundant production of formic to handle consumption requirements. It was said that shortages of steel carboys in the past have had more to do with supply disclocations in this market than has production. However, carboys have been available and producers were keeping up with a steady demand.

Price schedules for 85 percent material were firm at 15.7c. per pound in carboys for carlot quantities. In less than carlots the range for 4 to 25 drums was 16.2c. to 17.2c. per pound, the larger quantity being the outside price. The 90 percent grade carried the normal 55c. differential above 85 percent material in most areas.

Glycerine — Demand remained good. Producers were still moving a strong volume of refined material to consumers in several different consuming channels.

Glycerine stocks fell below 40,000,000 pounds in May but producers did not show too much concern over the precise level. Trade sources have indicated that although the stockpile is going down, a better balanced market was in view. Steady production of synthetic material already available and increases in facilities for output of synthetic tended to improve the picture. Traditional summer vacation periods were expected to relax the pressure a bit also. However there has been no sign of reduced demand.

Stocks at the end of May amounted to 39,042,000 pounds, compared with 40,351,000 pounds at the end of April, and 60,067,000 pounds at the end of May 1954, according to figures released by the Association of American Soap and Glycerine Producers, Inc. Production in May of this year totaled 18,917,000 pounds of crude, including synthetic on a crude basis. In comparison (April output was 17,039,000 and May 1954 production was 16,493,000 pounds. The cumulative total for the first five months was 89,007,000 pounds produced this year, and 92,090,000 pounds turned out in the January through May period of 1954. Disappearance in May amounted to 19,708,000 pounds, as against

This market reports on industrial aliphatic organic chemicals. Reports on industrial aromatic organics may be found in the Coal Chemicals market, while reports on fine and rare organic chemicals appear in the Drugs, Fine Chemicals, Botanicals market.

For Late Market Developments, See Page 4

18,203,000 pounds in April, and 17,692,000 pounds in May, 1954. The January-May cumulative figure for disappearance was 96,007,000 pounds this year and 90,898,000 pounds last year.

Hydroabietyl Alcohol — Quotations for this high molecular weight primary alcohol are now listed in the prices current section. A substantial market has been developed for the product, the producer indicated. Capacity was doubled by new production facilities that have come in to relieve some of the pressure on growing market needs. Current sales were said to be sizable.

Price schedules were presently at 25c. per pound in tankcars for solid material. The solid, in drum carlots zone 1 was at 27c. per pound and 27½c. per pound l.c.l., delivered. Prices were 2c. higher in zone 2. The alcohol was also available in solution form.

Methanol — Industrial demand was strong and the need for material moving to antifreeze canning outlets was beginning to show. Trade sources said that methanol was in a balanced position presently. One source indicated that there was also some of the normal July slowdown evident. Vacation shutdowns in many industries take some of the pressure off markets that have been relatively tight right along. Advance orders were at a good level, sources said, so, activity should snap right back.

Methyl Ethyl Ketone—A good demand continued to dominate the picture of this market. Producers related that they were moving MEK to diversified solvent outlets. Lacquer demand was generally high and showed no particular sign of softening. Prices were firm and undisturbed.

Oxalic Acid—Prices remained firm at 16½c. per pound in barrels, carlots. No revisions were immediately anticipated. Demand continued to hold to a brisk pace. Sales for the year were reported to be running substantially ahead of last year.

A good volume of the business for oxalic is in the market for automobile radiator cleaners. Trade sources indicated that sales for this outlet have been good and activity in this direction seems to have developed on a two-season-a-year basis, rather than just a spring radiator flushing frequently practiced in the past. The number of cars on the road have increased the market somewhat too. However, it normally is the older vehicles that provide the most business, it was said.

Oxalic also received good attention for industrial cleaning uses. Supplies were just about balanced in most forms. But, stocks of small crystals were running a little behind demand, it was reported.

Pentaerythritol—Despite the fact that there are vacation shutdowns in the paint industry, trade sources said, demand has kept plants running at capacity to satiate the market. The start of a strike at one producer's plant last week served to step-up the pressure.

One source indicated that it was running 7 days a week at capacity and still had some delivery delays. June was reported as a very strong sales month for PE and July demand was expected to make this month the strongest of the year thus far.

There was no easing of demand. If consumers were shutting down briefly, they wanted a continuous supply of material when they started up again, it was said.

Tetraethyl Orthosilicate—A reduction of 2½c. for the orthosilicate was reported last week. New carlot quotations were at 61½c. per pound in drums, delivered east. Less than carlots of drums became 62½c. per pound on the same basis.

Vinyl Acetate—No significant changes have been seen in the market for the monomer. Producers reported that demand was holding up very well. There have been no price changes and none were currently expected. Revisions in schedules of vinyl chloride-vinyl acetate copolymer prices recently were not felt likely to influence schedules of this monomer now.

THE KEY TO HARCHEM SEBACIC HEAT AND LIGHT STABILITY

SEBACIC ACID IS A PURE CHEMICAL

HARCHEM SEBACIC ACID is a PURE chemical suitable for your most exacting developments.

OUTSTANDING FOR
High Temperature Stability
Built-in Flexibility
Maximum Light Resistance
so essential to Alkyds, Polyesters, Polyamides, Plasticizers, Synthetic Lubricants and production of your other high quality products.

HARCHEM DIVISION
WALLACE & TIERNAN INC.
25 MAIN ST., BELLEVILLE 9, N. J.

Ethylene Imine
(boiling range 55° to 57° C)
and Triethylene Melamine
now available in semi-commercial quantities
Chemirad Corporation
Laurel, Maryland

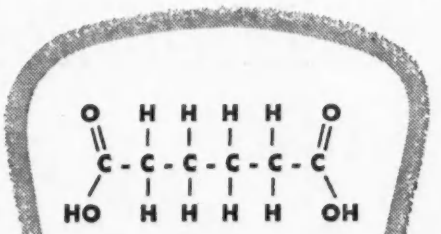
PROCTER & GAMBLE
Gwynne Building, Cincinnati 2, Ohio
Commerce Building, 155 East 44th Street New York 17, N. Y.
Glycerine
ALL GRADES
9 CONVENIENTLY LOCATED PRODUCING AND REFINING PLANTS ASSURE PROMPT SHIPMENTS AND DELIVERIES

LEVER BROTHERS COMPANY
Producers and Refiners of
NATURAL GLYCERINE
390 Park Avenue New York 22, N. Y.

RANEY CATALYST CO.
Originators and Dependable Suppliers of
RANEY CATALYSTS
718 Hamilton National Bank Bldg.
Chattanooga 2, Tenn.
Since 1925 Phones: 6-8616, Taylor 1-7823 Cable Address: RANI

AMERICAN Cyanamid COMPANY
Leading Producer of THIOUREA Announces a Price Reduction of
4 cents per pound
New manufacturing economies and increasing sales volume enable Cyanamid, leading American producer of Thiourea, to announce another reduction in the price of this important chemical. With the present 4-cent per pound reduction, Cyanamid has reduced the price of Thiourea 10½¢ in the last two years.
Cyanamid's Thiourea, manufactured to meet American specifications, is stocked in three convenient warehouses: Bound Brook, N. J., Chicago and Los Angeles.
Write for latest price information and technical data sheet.
AMERICAN Cyanamid COMPANY
INTERMEDIATE & RUBBER CHEMICALS DEPARTMENT
Bound Brook, New Jersey

Specify DU PONT
Adipic Acid
99.6% Pure
Du Pont Adipic Acid, of 99.6% minimum purity, is packaged in 50-lb. multi-ply paper bags. Prompt shipment can be made from strategically located stock points.
For further information, write to E. I. du Pont de Nemours & Co. (Inc.), Polychemicals Department, Room 617, Wilmington 98, Delaware.



A versatile dibasic acid with applications in plastics, rubber, petroleum, chemical and allied fields.

PHYSICAL PROPERTIES
White crystalline solid.
Melting point—152.1°C. (305.8°F.).
Solubility—Soluble in methanol, slightly soluble in water and cyclohexanone at room temperature.
pH of 3% solution—2.7 @ 25°C.

CHEMICAL PROPERTIES
Relatively stable.
Reacts with alcohols and basic materials in normal manner.
Is not oxidized by strong nitric acid at ordinary temperatures.
Can be held in molten state for long periods without serious decomposition.

DU PONT
Better Things for Better Living . . . through Chemistry
POLYCHEMICALS
DEPARTMENT
AMIDES • ALCOHOLS • ESTERS • ORGANIC ACIDS
SOLVENTS • RESINS

TERGITOL Surface Active Agents
Trade-Mark

A FULL LINE...one for every use

A complete selection of TERGITOL Surface Active Agents assures you that all your needs are covered, whether your process calls for a penetrant, emulsifier, wetting agent, or general-purpose surfactant. There are eleven TERGITOL Surface Active Agents to choose from:

▶ TERGITOL Nonionics
NPX, TMN, NP-14, NP-27, NP-35, and NP-10

▶ TERGITOL Anionics
7, P-28, 4, 08, and EH

It's easy to select the right one for your use because each of the TERGITOL Surfactants is designed for specific operating conditions.

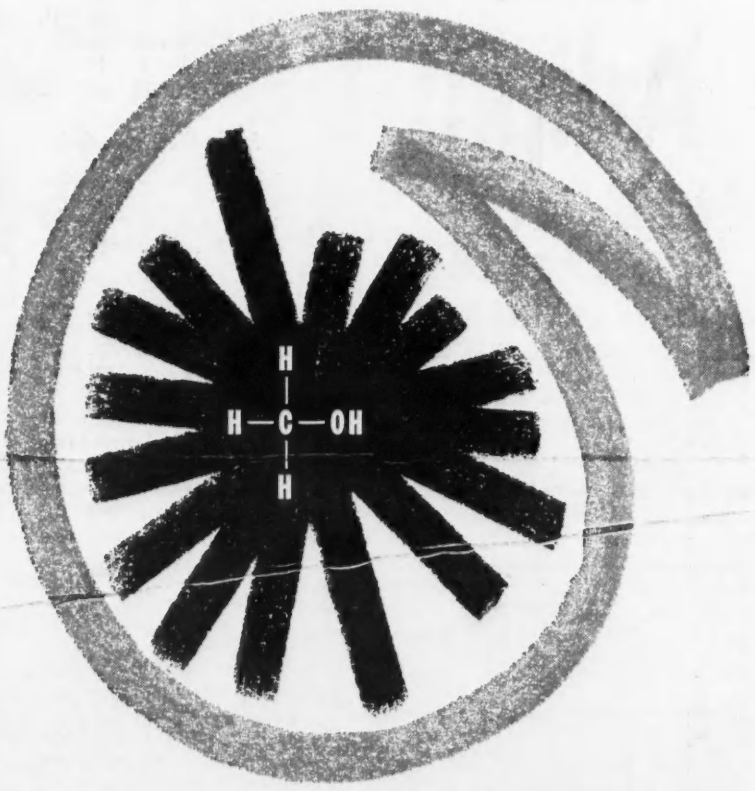
Call or Write the CARBIDE office near you for samples and further information.

"Tergitol" is a registered trade-mark of Union Carbide and Carbon Corporation.

Carbide and Carbon Chemicals Company
A Division of Union Carbide and Carbon Corporation
30 East 42nd Street UCC New York 17, N. Y.
In Canada: Union Carbide Canada Limited, Toronto

NATIONAL BRAND
MILK SUGAR
QUALITY STANDARD THE WORLD OVER SINCE 1883
ALPHA LACTOSE
BETA LACTOSE
NATIONAL MILK SUGAR COMPANY
Division of The Borden Company
350 MADISON AVENUE NEW YORK 17, N. Y.

Methanol
Denaturing grade, good color and odor, available for prompt shipment in tank cars or drums.
ACETIC ACID • TALL OIL • CHARCOAL



CROSSETT CHEMICAL COMPANY
A DIVISION OF THE CROSSETT COMPANY
CROSSETT, ARKANSAS

Submerged Lands Leases Bring in $107,000,000

Bids opened July 12 by the Department of the Interior for oil and gas leases on outer continental shelf lands off the coast of Louisiana and Texas produced almost $107,000,000 in high-bonus offers, the department has announced. The bids were opened at New Orleans, La. Winners of the leases will be announced later.

The sale went forward after legal action brought by Louisiana to restrain the federal leasing of tracts in a zone between three miles and three leagues off the Louisiana coast line was dismissed by the United States District Court for the District of Columbia. The court concluded it had no jurisdiction to entertain the suit since the question of the state's boundary is a matter now pending between the Supreme Court of the United States.

Louisiana also had offered some of the disputed tracts for sale at a bid opening held simultaneously with the federal opening but failed to get an offer for a state lease of any of the land.

The federal sale embraced 674,095.55 acres of submerged land in water up to sixty miles from shore and up to 100 feet deep off Louisiana and Texas. It was the third sale of outer continental shelf oil and gas lands made by the department and has produced a total of $249,312,619 for the government.

Nopco Chemical Appoints Brewer to Textile Position

Nopco Chemical Company, Harrison, N. J., has appointed Walter E. Brewer as the new manager for its textile chemicals division, according to Walter B. Morehouse, Nopco's general sales manager of the industrial division. Mr. Brewer will be in charge of the field sales force and the home sales office of the textile chemicals division.

Mr. Brewer has been with Nopco since 1936. He was previously district sales manager for all industrial products, covering twelve of the east coast states.

Liquid Carbonic Sells Unit

Liquid Carbonic Corporation has announced the sale of controlling interest in its English subsidiary, Liquid Carbonic Company, Ltd., to George J. Meyer Manufacturing Company, Cudahy, Wis. The price of the subsidiary will depend on a final audit, but is expected to exceed $300,000.

Concannon of BDSA to Head

—Continued from page 7

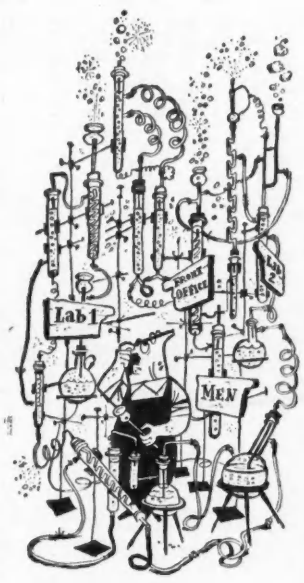
portant. The predominantly agricultural economy is greatly in need of improvement through the use of larger quantities of fertilizers, pesticides, and weed killers and great stress is being laid on increasing crop yields. Ammonium sulfate is especially needed and a plant for its production is considered of great importance.

Large-scale manufacture of alkalies, chlorine and sulfuric acid is not feasible or practical at present. The Karnaphuli paper mill operates a caustic soda plant to supply its own needs. Salt production on a cottage basis is found on the coasts of Khulna, Barisal, Nak Noakhali and Chittagong and efforts are being made to organize the industry. The Jallo rosin and turpentine plant was one of the largest in India before partition. Its operating costs are high, but some of its output is being exported at a manufacturing loss to gain much-needed foreign exchange. There are a number of small plastics factories, making chiefly low-priced consumer goods. The pharmaceutical industry is progressing steadily, although the output of drugs and medicines is small compared with requirements. Annual imports of these products are about $10,000,000.

The Palistan Industrial Development Corporation is interested in the promotion of the chemical industry. With assistance from the United Nations, it recently erected a DDT plant at Nowshera, Northwest Frontier Province, to produce about 200 metric tons annually, to be increased gradually to 700 tons. The corporation has plans for other plants when capital and exchange are available.

Campbell Names Kersten

Earl W. Kersten has been appointed vice-president in charge of sales for Campbell Chemicals, Inc., St. Louis, Mo. Mr. Kersten was formerly division manager in the Atlanta, Ga., area for Dodge & Olcott, Inc.



It's better to get it from Eastman . . . if you need a Rare organic in larger-than-laboratory amounts

We've been making Eastman Organic Chemicals for 36 years, and there are some 3500 of them which we supply regularly to science and industry. When you need special organics in quantity, you'll usually find it cheaper to make use of our experience and equipment than to try unfamiliar syntheses on your own hook.

For information or a quotation, write or wire *Distillation Products Industries,* Eastman Organic Chemicals Department, Rochester 3, N. Y.

DPI

DISTILLATION PRODUCTS INDUSTRIES
is a division of
EASTMAN KODAK COMPANY

PETROLATUMS
(Refined to stuctly controlled quality specifications)
Quaker State Oil Refining Corp.
WAX DEPT. OIL CITY, PA.

Petroleum Derivatives

It was another quiet summer week in the derivative field last week, with few variations in either sales or production figures. Quotations remained constant.

Production was down somewhat, in a few areas, due to the beginning of the summer shutdown of some plants for vacation periods.

Paint manufacturers made public note last week of the fact that they are having one of the best quarters, sales-wise, that they have ever known. This was reflected in the sales figures of lacquer diluents and partial aromatics. The manufacturers attributed part of the heavy sales to the automotive industry.

The waxes also, within the limitations of the summer slump, have shown some sales rises.

Benzol, usually a key to sales variation in the derivative field, remained unmoved throughout the week. Cleaners naphtha suffered a slight sales decline.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	July 16, 1954
104.32	104.32	104.32	104.42

(For Current Prices see Page 9)

Solvents and Diluents

Benzol—There was little or no change in the benzol market last week. What appeared to be a promise of future prosperity (the price agreement between automobile manufacturer and distributor) has to date shown no concrete results. However, as one producer noted, its invariably a matter of time more than anything else. This later observation is borne out by manufacturers' contentions that this quarter will carry with it some of the best sales figures in the history of the industry. Production has come up somewhat, obviously in anticipation of better sales. There were no quotation changes.

Cleaners Naphtha—A loose market continued for cleaners naphtha last week as sales once again took a minor decline. A continuation of the falling off that has resulted from the use of synthetic fibres in the clothing industry, the decline has been steady since the beginning of the summer. Many producers are still rooting about for new uses for their product; others are attempting to devise new promotion and sales programs. Production is down; there were no variations in quotations.

Heptane—Both heptane and hexane remained unmoved in the market place last week, it was noted. Producers continue to contend that if government buyers would clarify their position, the immediate future of the industry would be clearer. Production and prices were the same.

Lacquer Diluents—Sales and production figures remained steady and good in the lacquer market last week. The continued heavy buying by home-owners and other non-industrial users, plus the regular seasonal market (paint manufacturers sales to the construction industry) have given producers what may turn out to be one of their best quarters in the industry's history. Quotations remained the same.

Partial Aromatics — The continued growth of the partial aromatics market was strengthened last week by paint manufacturer claims of the best summer, sales-wise, that they've ever had. The growth of the market was originally based upon a manufacturer's trend away from full aromatics and toward the cheaper partial aromatics. Production was good and sales remained high. Prices, however, in spite of the strength of the market, remained unchanged.

Toluol—The market stabilized somewhat last week, reviving from the minorary and evidently temporary setback of two weeks ago. Sales still are far below what they were last year and the year before. In spite of this, however, the market seems to be reviving, on industrial and other non-governmental buying, from the setback suffered at the cutfered at the tremendous cutback in govback in government sales. One producer noted, however, that the drop was probably beneficial to the field. No group of producers should be completely dependent upon one outlet, he stated. Production remained unchanged; sales, also, and there were no quotation changes.

VM&P Naphtha—Rising on the high tide of paint manufacturer's sales to the automotive industry, producers last week claimed one of their best weeks in the season. Most producers laid the good week to the resolution of problems within the automotive and steel industries. Though prices have remained unchanged, production is up and sales have stood on a high level. Though stocks were not overly high, they were good enough to handle any rise in demand.

Xylol—Buying on the part of plastic and synthetic rubber manufacturers was up last week, it was noted, though there were no changes in either prices nor production figures. Sufficient supplies were on hand to take care of any added buying interest, it was stated. Sales to insecticide manufacturers held well, as they have all through the summer months.

Lighter Fractions

LPG's—Liquefied petroleum gases market showed only a four percent gain last year, as compared with a 10 percent gain the previous year, the Bureau of Mines has reported. Foreign demand for LPG continued its high rate of expansion and 1954 exports rose 31 percent over the 1953 total. LPG sold to both manufactured gas companies and to synthetic rubber plants showed a pronounced decline in 1954. The quantity delivered to gas companies for distribution through mains dropped 14 percent in 1954, as natural gas continued to become available in additional areas. A sales decline to synthetic rubber plants of 21 percent was attributable to a curtailed production of the product, the Bureau of Mines noted. Sales of LPG for domestic and commercial uses continued to gain in 1954, but at a lower rate.

Waxes

Microcrystalline—In spite of the continued hold of the summer slump, considerable strength was noted in most of the market, with no signs of a letdown or setback in sight. Buying interest in both refined and other grades was following better than average trends. Production was up to a good capacity, with manufacturers finding ready outlets for many products.

Paraffin—High melting point product demand continued to be strong as the food packaging industry continued high level production last week. Though other areas of the field are still suffering from the summer slump, high melting point is holding the overall market level up. There were no price variations nor were there any changes in production figures.

Miscellaneous

World crude oil production during December was a record 14,287,000 barrels daily, and topped the November daily average by 2.2 percent, according to figures compiled by the bureau of mines. Middle Eastern production for December also was a record maker with 3,041,000 barrels daily, a surge of 5.1 percent over the previous month's figures.

Other world petroleum figures are:—

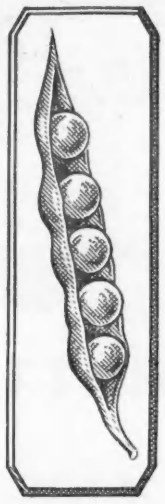
Crude imports into western Europe averaged 1,795,000 barrels daily, a decline of 1.5 percent from the rate in November. Imports by the United Kingdom, the largest importer, dropped slightly to average 558,000 barrels daily, compared to 567,000 during November. Daily average imports by France, 452,000 barrels, declined 4.0 percent from the November rate. Among the principal importers, only Netherlands and Germany showed increases on the daily average basis.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended July 2 totaled 273,311,000 barrels according to data reported to the Bureau of Mines. Compared with the total of 273,405,000 barrels for the preceding week, this represents a decrease of 94,000 barrels comprising an increase of 1,016,000 barrels in stocks of domestic crude and a decrease of 1,110,000 barrels in stocks of foreign crude.

For Late Market Developments, See Page 4

UNIFORMITY CHARACTERIZES BARECO'S



Be-Square 190/195
microcrystalline wax

Just like peas in a pod . . . every shipment the same . . . every shipment reliable. Wax technicians and scientists in hundreds of different industries have placed their confidence in the uniformity of Be Square 190/195 melting point microcrystalline wax. Penetration 2/7. Available in black, light amber and white. Write for details.

SALES OFFICES
1500 South Western Ave.
CHICAGO, ILLINOIS
121 S. Broad Street
PHILADELPHIA, PA.

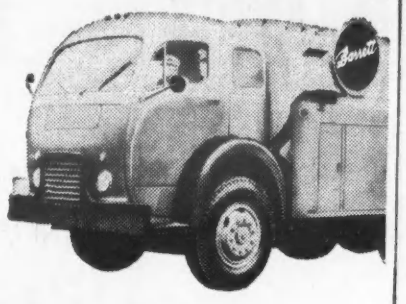
BARECO OIL CO.
BOX 2009 • TULSA, OKLA.

PENN-DRAKE® WHITE OILS
TOP QUALITY U.S.P., N.F. and Technical Grades
penn drake products
PENNSYLVANIA REFINING COMPANY
BUTLER, PENNSYLVANIA
Branches: Cleveland, Ohio and Edgewater, N. J.
Representatives in all Principal Cities

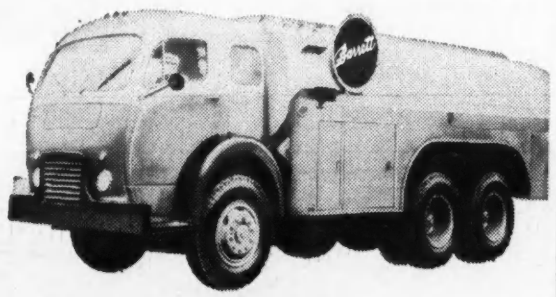
Process Materials

- Petroleum Naphthas and Solvents
- Plasticizers and Extenders for Plastics and Rubber
- Toluene and Xylene, Shell TS-28
- Paraffin and Microcrystalline Waxes

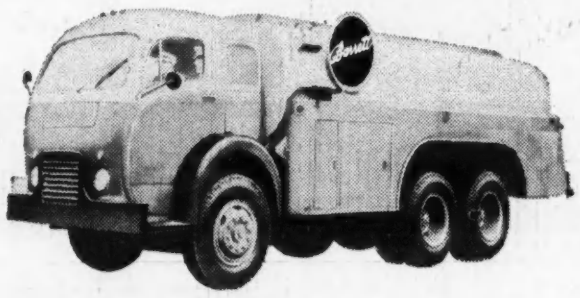
SHELL OIL COMPANY
50 WEST 50TH STREET, NEW YORK 20, NEW YORK
100 BUSH STREET, SAN FRANCISCO 6, CALIFORNIA
SHELL



LET BARRETT



DELIVER THE



GOODS . . .

promptly, efficiently, when and where you want them. Barrett makes chemical and resin products of the highest quality, gladly lends technical assistance to help you with application problems. Whatever your chemical needs, you can't go wrong with Barrett!

BARRETT CHEMICALS FOR INDUSTRY

Phenols
Cresols
Cresylic Acids
Xylenols
Pickling Inhibitors
Benzol
Toluol
Xylol
Naphthalene
Hi-Flash Solvent
Phthalic Anhydride
Maleic Anhydride
Fumaric Acid
Dibutyl Phthalate
Dimethyl Phthalate
ELASTEX* 28-P Plasticizer (DOP)
"ELASTEX" 10-P Plasticizer (DIOP)
"ELASTEX" DCHP Plasticizer
"ELASTEX" 50-B* Plasticizer
"ELASTEX" 60-A Plasticizer (Dioctyl Adipate)
"ELASTEX" 40-P Plasticizer (Butyl Decyl Phthalate)
"ELASTEX" 90-P (Didecyl Phthalate)
Acetone
Ethylene Glycol
Diethylene Glycol
Monoethanolamine
Diethanolamine
Triethanolamine
Niacin (Nicotinic Acid)
Pyridines
Picolines
Quinoline
Lutidines
Tar Acid Oils
Neutral Coal-Tar Oil
Coal-Tar Creosote
Bardol* Rubber Compounding Oil
BRC*21 Hydrocarbon
BRC*22 Hydrocarbon
Flotation Agents
CUMAR* Paracoumarone-Indene Resin

Barrett

BARRETT CHEMICALS

BARRETT DIVISION, Allied Chemical & Dye Corporation
40 Rector Street, New York 6, N. Y.
In Canada: The Barrett Company, Ltd., Montreal

Allied Chemical

*Reg. U. S. Pat. Off.

OVER 100 YEARS OF EXPERIENCE

Coal Chemicals

Coal chemicals were relatively unchanged last week. Demand for the tar acids was still strong. Producers were moving cresols and cresylic acid out as fast as they were made. The well established cresylic resin demand and additional needs for tricresyl phosphate taxed market supplies. Prices of these tar acids and other coaltar products were settled at new levels, no further changes being reported.

Many intermediates continued to move very well. The call for phthalic anhydride was still strong. An easier situation here was just barely visible. There was a little cutback from vacations. But, future orders were strong and total consumer requests remained up. Rubber chemicals and accelerators such as DPG, DOTG and MBTS grew stronger. No letup from synthetic rubber was anticipated.

Benzol also moved well to synthetic rubber, as well as other outlets. Toluol held up and was amply available. Creosote has not had much added interest. Crude naphthalene was in a comparatively snug position, but, did not seem to be making the phthalic anhydride situation any tighter at the moment. Imported crudes were still scarce and saw price resistance on the part of primary suppliers and buyers here.

Steel production the week ending July 17 was scheduled to be at 92.5 percent, or an index of 139.0, according to the American Iron and Steel Institute. This equalled 2,233,000 tons, compared with 1,534,000 tons one year ago. Steel productions records were set in June and for the second quarter. The six-month total just fell short of the record set in the first half of 1953.

Basic Products

Benzol—Sustained buying interest from several directions kept the benzol market active. Producers were moving production out to synthetic rubber and to styrene for plastic end-uses as well. There has been a steady demand for benzol in synthetic phenol production. Requirements for insecticide output in some locations have been very high and promised to continue the same way through August.

With diverisified demand and adequate production, suppliers were expecting to enjoy a balanced market for several months more. Steel operations have been high and resulted in a correspondingly good output of coaltar benzol. There was no anticipation of a shortage, and heavy surpluses were prevented by the scope of the demands for benzol in the first half of the year.

Creosote — Demand has not shown enough spark to generate much enthusiasm. It was said that there were one or two directions that provided slightly better call. But, in general, railroad buying was slow.

Some of the "roads" have trimmed maintenance operation costs and were not expected to immediately increase their needs, it was added. Consumer inventories were considered to be low. Because of delays in the process of aging wood and impregnating the ties with creosote, it was felt that a sudden surge in buying could result in some dislocation of the market. Trade sources did hope for a small improvement in demand later this year. So far, the pickup has been slight. Supplies were more than ample to handle all needs. Prices were steady without change.

Cresols—Sales activity for tar acids remained at a high level. Producers were not able to take care of the entire demand for all fractions. Some grades have been a lot shorter than others due to consumer preference in the larger volume outlets. However, all grades appear to moving very well.

One of the primary problems of suppliers is to get enough distillation time to run their crudes fast enough to take care of consumption needs. There are enough crudes to run. But, equipment running at full speed has not been turning out enough tar acids to meet the demand. Some expansion in production facilities was expected to help out a bit.

Cresylic Acid—Domestic coaltar producers were still selling a substantial volume of acid to consumers in the fields of cresylic resins and tricresyl phosphate. Wire enamels, flotation needs, engine cleaners and disinfectants rounded out the rest of the demand. ADF cresylic acid was still quite short and getting good call from the overflow of domestic activity, besides normal market requirements.

Naphthalene—There was no further price activity reported. Crude naphthalene remained in rather snug supply. There was no critical shortage noted. Phthalic anhydride production schedules have been maintained without visible strain. Producers, however, were unable to build any inventory for themselves to meet expected strong demand in the last quarter.

Despite a firm price tone for domestic material, there was some resistance to imported offerings of 7c. and a fraction over. Very little material was available and not much business was being done at the current American market levels, it was said.

Phenol—There has not been a great deal of change in the market. Phenolic resins and adhesives continued to provide a good demand. There were a few instances where vacations shutdowns diminished activity. However, these occasions were limited and the overall effect on total sales was not severe. Most sources were looking for continued good business through this quarter.

There was ample production of synthetic and natural material to take care of consumer requirements. The price picture showed some unsettlement because the new 17c. USP price of July 1 has not completely taken hold yet. Some sales have been carried over at the old price, it was reported. But, producers expected the situation to firm up before long.

Toluol—There was ample production to take care of a relatively good demand. Government buying for defense needs has been in a temporary lull. But, industrial consumption was sufficient to keep the toluol market at a status quo. Prices were steady without change.

Intermediates

Anisidines—Demand for the ortho and para isomers of anisidine coming largely from dyestuff intermediate use in the textile industry was showing a slightly slower pace last week. Suppliers said that the drop was from vacations in textiles. Buying interest was due to pick right up again after shutdowns, it was added.

Diphenyl Guanidine—Sales activity held up to a very high level. Producers were

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	July 16, 1954
114.73	114.73	114.66	114.57

(For Current Prices see Page 9)

Cyclic Chemicals Output: Apr.

The following production statistics on coal chemicals indicate output in April 1953, compared with March. Figures originate in a report to the Tariff Commission and represent total production from all sources, unless the specific sources are indicated.

	Production April	March
Acetanilide, tech., and USP, lbs.	342,700	262,025
Aniline ..... lbs.	12,369,620	12,598,464
Benzol (specification and industrial grades):—		
Tar distillers... gals.	1,348,177	1,671,374
Petroleum operators.. gals.	8,902,450	8,590,535
Cokeoven operators.. gals.	13,958,623	14,929,705
Total .....gals.	23,897,333	25,503,529
Creosote:—		
Tar distillers....gals.	7,340,610	8,121,932
Cokeoven operators .. gals.	2,826,455	2,942,222
Total .....gals.	10,167,065	11,064,154
Cresols:—		
Meta-para .....lbs.	1,572,216	1,569,522
Ortho-meta-para .....lbs.	867,240	965,295
Cresylic acid, refined...lbs.	4,515,203	4,559,583
Dyes (commercial concentrations):—		
C.I. 202 Chrome blue black R conc. lbs.	256,304	203,068
C.I. 581 Direct black EW, lbs.	582,993	475,581
Pr. 302 Naphthol AS lbs.	96,725	73,580
Monochlorobenzene ....lbs.	37,544,466	38,840,022
Naphthalene crude (solidifying at less than 79°C.):—		
Tar distillers .....lbs.	22,654,614	19,303,638
Cokeoven operators lbs.	16,127,448	16,037,754
Total ..... lbs.	38,782,062	35,341,392
Refined (solidifying at 79°C. and over):—		
Tar distillers .....lbs.	7,661,721	7,389,836
Phenol (synthetic and natural), tech. and USP.. lbs.	43,535,133	43,937,659
Phthalic anhydride....lbs.	29,263,188	30,450,170
Styrene (government and privately-owned plants combined) .....lbs.	64,598,237	80,756,757
Toluol:—		
Cokeoven operators.... gals.	3,162,607	3,347,300
All other sources..gals.	11,216,807	11,320,006
Total .....gals.	14,379,214	14,667,506
Xylol, crude:—Coaltar and petroleum derived gals.	10,593,520	7,623,545

For Late Market Developments, See Page 4

Coal Chemicals

Estimated output of coal chemicals recovered from cokeoven operations during the week ending July 17, was as follows:—

Ammonia liquid, NH_3	lbs.	1,043,643
Ammonium sulfate	lbs.	37,715,675
Benzol	gals.	3,508,022
Coaltar	gals.	16,549,190
Creosote oil	gals.	924,369
Naphthalene, crude	lbs.	2,549,470
Pyridine, refined	lbs.	26,837
Toluol	gals.	709,677
Xylol	gals.	189,347

moving all of their output right out as fast as it was made. It was said that there was no breathing time to build up any stock for most rubber chemicals. Activity in the rubber industry was setting production records, with no letup anticipated. Prices for DPG were settled at new levels of 50c. per pound in ton lots and 51c. to 52c. per pound for lesser quantities.

H Acid—A slight slowdown in orders was noted in this market last week. The situation was only temporary while much of the textile industry was on vacation. A similar drop in interest was felt for a lot of chemicals that go to colors and printing pigments, it was said. Demand was expected to pick right up again when production resumes in these consuming outlets.

Phthalic Anhydride—Trade sources indicated mild surprise that demand has been sustained so well without substantial easing.

There were one or two reported requests for delays in shipments and cancellations of backorders. Part was the result of vacations and some was felt to be more confidence among consumers that the situation was getting better, so order books could be cleaned up and brought up to date.

Pittsburgh Coke Division Adds Three New Products

Pittsburgh Coke & Chemical Company, Pittsburgh, Pa., has announced the addition of specialty tars, coaltar pitch and creosote to the products manufactured and sold by its protective coatings division. These materials were formerly handled by the coal chemicals division.

N. T. Shideler, manager of the protective coatings division, said the move will fully integrate the division's position in the producton of Pitt Chem pipeline enamels and coaltar coatings. In addition, further emphasis is being placed on Pittsburgh's program of upgrading basic coke-oven-derived materials and of developing new products from these materials.

U.S. Rubber Co. Elects

H. Gordon Smith, executive vice-president of United States Rubber Company, has been elected vice-chairman of the board and chairman of the executive committee. Effective August 1, Chester J. Noolan, vice president, will become a member of the executive committee.

FAIRMOUNT CHEMICAL CO., INC.
600 FERRY ST., NEWARK 5, N.J.
BENZOTRIAZOLE

IRON FILINGS
(GROUND CHEMICAL IRON)
ELIZABETH 1, NEW JERSEY: 200 S. SECOND ST.
CONNELLY, INC. SINCE 1876
CHICAGO 8, 3154 S. CALIFORNIA AVE.

Get it First . . . . . .
Get it All . . . . . .
Get it Straight . . . . . .
. . . . . in OPD

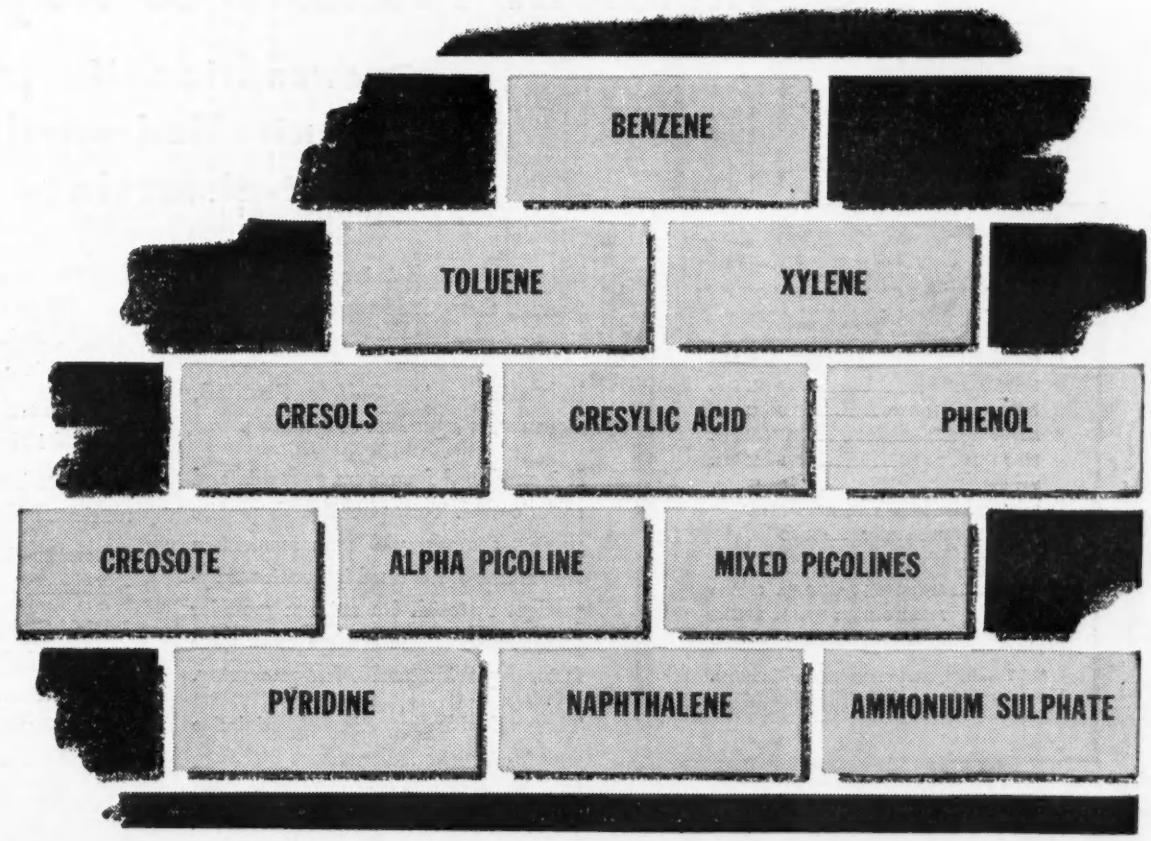
MONSANTO
PHTHALIC ANHYDRIDE
. . . unitized shipments cut unloading time
Call any Monsanto office:
St. Louis, Atlanta, Boston, Chicago, Cincinnati, Cleveland, Detroit, Houston, Los Angeles, New York, San Francisco, Seattle, Twin Cities, Wilmington, Montreal.

The name is
ALAN WOOD
WHEN YOU REQUIRE
- Ammonium Sulphate
- Benzol
- Toluol
- Xylol
- Naphthalene
- Sodium Phenolate
- Tar Bases (Pyridine)
- Solvent Naphtha
- Crude Still Residue

OTHER PRODUCTS
Merchant Pig Iron
Magnetite Ore Concentrates
Foundry, Metallurgical and Industrial Coke

ALAN WOOD STEEL COMPANY
Coke and Chemicals Division
Conshohocken, Pa.

All these chemical "building blocks"...
available from
United States Steel



United States Steel offers prompt and efficient service on all chemicals

United States Steel has ten plants producing chemicals. When you order your chemicals from U.S. Steel, you are assured of service and shipment to meet your production needs. For more information, contact our nearest Chemical Sales Office, or the United States Steel Corporation, 525 William Penn Place, Pittsburgh 30, Pennsylvania.

A NEW COLOR MOTION PICTURE, "The Waiting Harvest," tells an interesting story of U.S. Steel's participation in the field of Chemicals. It is available on request in 16 or 35 mm film from Film Distribution Center, United States Steel Corporation, 525 William Penn Place, Pittsburgh 30, Pa.

SEE THE UNITED STATES STEEL HOUR. It's a full-hour TV program presented every other week by United States Steel. Consult your local newspaper for time and station.

USS Chemicals
UNITED STATES STEEL

Memo to: **bulk users of**

AMMONIUM SULFATE
Purified, Granular

3 excellent reasons to buy Baker

❶ exceptionally pure
❷ controlled particle size
❸ fast-dissolving

SPECIFICATIONS

Assay $(NH_4)_2SO_4$	99.5	% Min.
Insoluble Matter	0.010	% Max.
Residue after Ignition	0.010	% Max.
Arsenic (as)	0.00003	% Max.
Heavy Metals (as Pb)	0.001	% Max.
Iron (Fe)	0.001	% Max.
Neutrality	Passes Test*	
pH of 5% Solution at 25°C	5.0-6.0	
Particle Size (Mesh)	At least 98% thru U.S. No. 20 Sieve	
	At least 90% thru U.S. No. 35 Sieve	
	At least 75% on U.S. No. 200 Sieve	

*A.C.S. neutrality test for reagent ammonium sulfate.

If Ammonium Sulfate is essential to your process, these three reasons can mean time and money to you.

Baker Ammonium Sulfate, Purified, Granular, is a product of synthesis.

It is produced from pure ammonia and sulfuric acid. This, plus Baker's precise process controls, yields an ammonium sulfate free of the usual impurities of by-product material. Its uniform granular particle size is fine enough to dissolve fast and provide trouble-free processing.

These valuable properties help minimize your processing and product variation, help decrease your production time, help *cut* your costs by eliminating purification steps.

USES: Baker Ammonium Sulfate, Purified, Granular, finds particular application in industries requiring a material exceptionally low in critical impurities such as arsenic, heavy metals and iron.

Pharmaceutical —antibiotic manufacture; preparation of biological serums; precipitant in purifying and separating proteins; in blood fractionation.

Food Processing—in dry yeast production and in leavening agents.

Fermentation—as an activating agent, nutrient, and for pH control.

Cosmetics—in formulations for home permanent hair waving, in shampoos.

PACKAGING: Baker Ammonium Sulfate, Purified, Granular, is packaged in fibre drums with net weights of 25, 100 and 300 pounds, and in bags of 100 pounds net weight.

The ability to produce fine and industrial chemicals *of outstanding purity for process and ingredient use* has made Baker a leading supplier for half a century.

Remember... it pays to buy Baker!

J. T. Baker Chemical Co.
Executive Offices & Plant, Phillipsburg, N. J.

Baker CHEMICAL

Baker Chemicals
REAGENT • FINE • INDUSTRIAL

Drugs, Fine Chemicals, Botanicals

USP riboflavin was reduced $20.00 per kilo late last week. It was the first change since December of 1952. Silver nitrate advanced ¼ cent per ounce, across the board. A number of pharmaceutical plants close down for two or three weeks vacation periods with the result that overall market activity was curtailed. A strike at one producers plant was reported last week and was said to have caused some difficulties in shipping orders.

The recent heat wave was welcomed by producers of sodium benzoate, citric and tartaric acids, consumption of which increased, particularly in the manufacture of soft drinks as well as in canned foods where consumption is estimated to exceed 1,000,000 pounds annually. The approach of the harvest season was expected to see a stepup in inquiry from canners and frozen food processors. Citric acid continues to run at an excellent rate of demand with both soft drink manufacturers and frozen food processors as heavy buyers. Citric is also used in jams and jellies and the like in addition to functioning as an acidulant in pharmaceutical enduses.

Synthetic vitamins were in fair demand, on the whole. Supplies were believed to be adequate in every case while inquiry was slower in some items due to the warm weather. Synthetic vitamin A continues to move in volume since a major use for this item is the fortification of margarine. Pharmaceutical manufacturers were expected to anticipate their fall vitamin needs in the near future. Overall consumption of vitamins continues to grow and the excellent health of the national economy was expected to be a significant factor in the continued expansion of vitamin sales, particularly with reference to the increasing emphasis on geriatric medicine.

The menthol market continued in the summer doldrums. Consumers continued to buy strictly hand-to-mouth while dealers appeared to be willing to stand firm, pricewise, in anticipation of increased buying by next month. Pharmaceutical manufacturers were expected shortly to begin building their depleted inventories in anticipation of their fall manufacturing needs.

Price Trends

Advanced

Silver nitrate, ¼c. per oz.

Reduced

Riboflavin, USP, $20 per kilo.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	July 16, 1954
66.87	67.14	67.16	68.76

(For Current Prices see Page 9)

Bismuth Salts—Demand was routine with supplies ample to cover current trade needs and expected to continue in the immediate future. Overall consumption of bismuth salts was generally limited to a few major users, it was noted. Prices were steady and expected to continue during the immediate future.

Choline Salts—Demand for the choline salts was reported seasonally routine. Supplies were ample to cover consumer requirements and expected to continue. Prices were unchanged.

Citric Acid—Demand was running at excellent seasonal levels. Supplies were adequate to meet current demand and expected to continue. Prices were firm with no changes anticipated this quarter.

The recent heat wave was instrumental in boosting overall consumption of citric, particularly in the manufacture of soft drinks. Other food outlets for citric were in the manufacture of jams and jellies, production of which should go into a seasonal high during the harvest months.

Menthol—Natural menthol continued to move along in a desultory manner. The market held unchanged with Brazilian material quoted around $9 per pound, on spot. Stocks were reportedly held in fairly strong hands and dealers appeared to be content to mark time until possibly next month at which time consumers should start to anticipate fall requirements.

A substantial quantity of the natural menthol consumed goes into pharmaceutical enduses, particularly cold weather preparations. Usually manufacturers of such products begin to build up menthol inventories in mid-summer. Japanese menthol prices were noted to have come down in contrast to the exceedingly high levels at which this quality was quoted earlier in the year.

Methionine—Inquiry for methionine was said to be moving satisfactorily. Supplies were adequate and the outlook for continued expansion in the usage of this vitamin was excellent.

Molasses—A seasonally moderate demand for feed molasses continued during the week ended July 12, 1955. Port-terminal prices for blackstrap remained steady and unchanged. Slight price increases were experienced at a few feed mixing centers, reflecting adjustments to new base prices at Gulf terminals. Improved demand is noted at West coast points as supplies of blackstrap continue liberal. Most available citrus molasses has been committed locally at prices ranging from $12 to $17.50 per ton. Market conditions for hydrol and beet molasses continue unchanged from last week.

Sugar beet production for 1955 was estimated at 11,900,000 tons, according to the Crop Reporting Board of the U.S. Department of Agriculture. This is a sizable reduction from the 14,100,000 tons produced from last year's crop. Acreage controls on the current beet crop are in effect for the first time since 1939. Conditions as of July 1, 1955, indicate a production of sugarcane this year of approximately 6,800,000 tons, and a probable blackstrap production of 38,000,000 gallons. The 1954 crop yielded 43,000,000 gallons of blackstrap. Stands of cane were reported in good condition both in Louisiana and Florida.

Reserpine—Consumption of reserpine continues to forge ahead as its usage increases in psychiatric therapy. Despite the heavy boost in consumption, the supply situation appeared to be generally satisfactory. Domestic manufacturers of this alkaloid have been drawing upon several sources for their raw material rather than just from the initial source, the root of the rauwolfia serpentina plant, which is found only in a localized area in India. As a result, adequate supplies of reserpine appeared to be assured and it may well happen the reserpine and other drugs such as chlorpromazine will have as great an impact in the treatment of mental disease as has had penicillin in the treatment of conventional diseases.

Riboflavin—The price of USP riboflavin was cut $20 per kilo last week. The decline was the first price cut since December, 1952, and brought the current level to $80 per kilo.

Silver Nitrate—Silver nitrate prices advanced ¼c. per ounce last week, on the heels of a 3½c. increase in silver bullion quotations. The new schedule will be found in the prices current section of this issue.

Sodium Benzoate—Consumption of this salt has been moving at seasonally active levels, according to trade sources. The recent spell of hot weather was most effective in boosting the consumption of soft drinks with a resulting increase in the use of sodium benzoate, which is employed as a preservative.

The approach of the busiest part of the harvesting season should also be reflected in a stepup in consumption of sodium benzoate by canners and frozen food processors, particularly the former. The supply situation was one of abundance while pricewise, there was a general stability with no immediate change anticipated.

Tartaric Acid—Consumption was reportedly running at a good seasonal rate. Supplies were ample to cover consumer needs and prices quite firm. The price of argols, the raw material from which tartrates are manufactured, continues high and it appeared probable that tartrates production costs would remain high for the balance of the year.

The recent hot spell resulted in a substantial boost in demand for tartrates, according to trade sources. A considerable quantity of tartaric acid used goes into the manufacture of soft drinks, consumption of which hits a seasonal high during the summer months.

Vitamin A—Demand for synthetic vitamin A continued to move at good levels last week. A substantial amount of this vitamin used goes into the fortification of margarine, production of which has steadily increased in recent years. Pharmaceutical uses for vitamin A also accounted for a major portion of production.

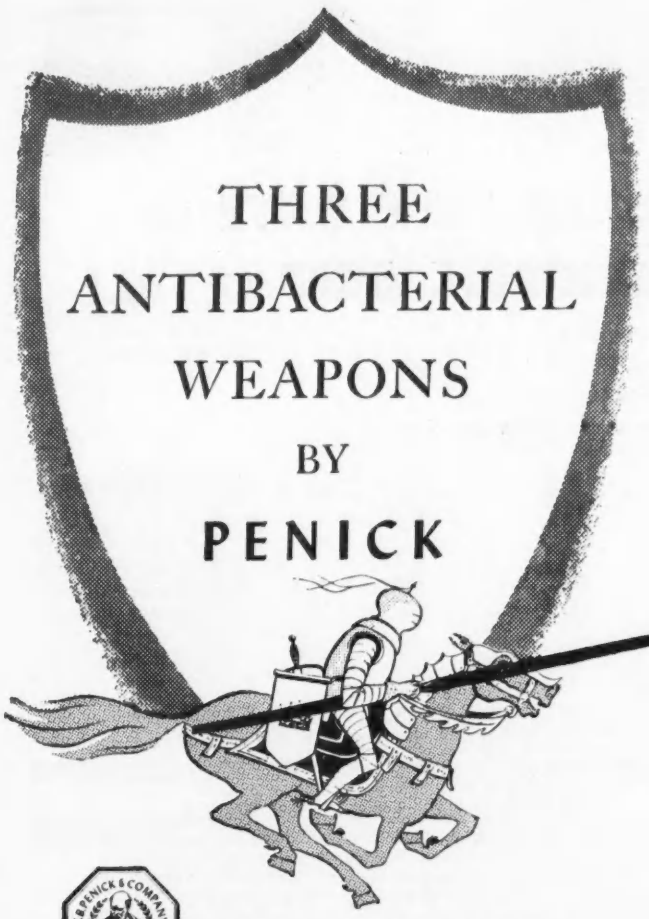
At present, however, its use in the pharmaceutical end was somewhat seasonally lower than during the cold weather months when drugs consumption hits its

For Late Market Developments, See Page 4

SODIUM BENZOATE USP
BENZOIC ACID USP
- Highest quality
- Competitive prices
- Drums to carloads
- Prompt delivery from local stocks

McKESSON & ROBBINS
INCORPORATED
CHEMICAL DEPARTMENT
Nationwide distributors of heavy and fine chemicals
Boston • Burlington • Cedar Rapids • Chicago • Cleveland • Dallas • Davenport • Decatur
Des Moines • Detroit • Houston • Los Angeles • Milwaukee • Mobile • New York • Omaha
Peoria • Philadelphia • Phoenix • St. Paul • St. Louis • San Antonio • San Diego • Wichita

HEYDEN
BENZALDEHYDE
N.F. (F.F.C.) and TECHNICAL
METHYL SALICYLATE U.S.P.
(Wintergreen Oil, Synthetic)
METHYL BENZOATE
ETHYL BENZOATE
TOLYL ALDEHYDE
SACCHARIN U.S.P.
SACCHARIN SODIUM U.S.P.
FINE HEYDEN CHEMICALS
HEYDEN CHEMICAL CORPORATION
342 Madison Ave. • New York 17, N.Y.
Chicago • Cincinnati • Detroit • Philadelphia • Providence • San Francisco



1

BACITRACIN

PENITRACIN (Penick brand Bacitracin) is the result of over six years of product research. Penitracin is standardized to exacting specifications for (1) impalpable fine mesh, (2) uniform density, (3) uniform solution color. Penitracin is adaptable to parenteral use in dry powder vials, or to topical use in tablet, troche, ointment, or suppository forms.

2

NEOMYCIN

The newest of the Streptomyces group, it offers a wider spectrum of anti-microbic activity. Neomycin Sulfate Penick is a whitish, water-soluble powder with a potency of not less than 600 micrograms of Neomycin base per milligram. The pH range of an aqueous solution concentrated at 33 milligrams of Neomycin base per milliliter is between 5.0 and 7.5. Penick Neomycin Sulfate meets recognized standards for low moisture content (not more than 5%), non-toxicity, bacteria count, screen test, and positive sulfate identification. Adapatable to incorporation in tablets, solutions, ointments, or troches.

3

TYROTHRICIN

TYROTHRICIN PENICK is a highly purified product, easily meeting U.S.P. specifications for antibiotic effectiveness and physical characteristics. It is accepted for New and Non-official Remedies in bulk form by the Council on Pharmacy and Chemistry of the American Medical Association. Tyrothricin Penick is adaptable to topical use in solution, tablet, or ointment form, and is available from large scale production for immediate shipment.

Basic Products for the Pharmaceutical Industry

S. B. PENICK & COMPANY

50 Church Street, New York 8, N.Y. Telephone COrtlandt 7-1970

735 West Division Street, Chicago 10, Ill. Telephone MOhawk 4-5651

The positive, individual antibacterial effects of these three antibiotics are further magnified by combination with each other. Whether alone or combined, Bacitracin, Neomycin and Tyrothricin present versatile weapons against susceptible bacteria over a wide range.

Importers Meer Corp. processors

Botanical Drugs — Drug Extracts
Water Soluble Gums — Spices

Chemically and Biologically Assayed

For Prompt Shipment

POWDERED EXTRACT
BELLADONNA LEAVES U.S.P. XIV

POWDERED EXTRACT
HENBANE N.F. IX

Meer *Corporation*

318 West 46th Street
New York 36, New York
plant: North Bergen, N. J.
telephones: JUdson 6-0900 (NY)
UNion 6-3900 (NJ)

yearly peak. The pharmaceutical industry was expected to begin to anticipate its fall needs in coming weeks and the overall outlook was good, it was said.

Botanicals

The spot market continued essentially unchanged last week, according to trade sources. On the domestic scene, the supply picture continues to improve while inquiry was reported to be running at a fairly strong rate. Botanical collectors appeared to be paying more attention to the new crop now that the heaviest farm work was over, it was said. Overproduction of some items was feared but a lowering of prices offered by dealers was expected to have a stabilizing effect.

A reasonably good inquiry was reported for kola nuts with prices showing a firm trend in the face of sustained demand and a somewhat unfavorable outlook regarding future supplies. The first of this year's Jamaican crop has been reported accounted for and there have been only scattered offerings from Africa. Meanwhile the second crop was not expected to get under way in Jamaica until later in the year.

Ipecac root continues generally firm in price although a decline in demand has been reflected in lower prices in the past month. There were no new developments in either ergot or papain. Consumption of both has declined in some applications, it was noted.

Belladona Leaves—Inquiry for this item was reported routine while supplies were ample and expected to continue in the immediate future. Prices were unchanged.

Elder Flowers—There has been no changes in this item in some time. Demand was routine for this time of year and supplies adequate to cover consumer requirements.

Sarsaparilla Root—Lots of new crop root have been arriving and the supply situation has been improved substantially cosmpared to last year. Consumption of sarsaparilla root is particularly heavy during the warm weather as a result of its popularity as a flavoring agent in extracts.

United States Potash Appoints Gordon Director of Research

United States Potash Company, New York, has appointed Dr. George Selbie Gordon director of research. Since 1951, Dr. Gordon had been vice-president of Titanium Zirconium Company, Flemington, N. J. He had been with that company since its inception and was in charge of all technology and development.

In 1943, Dr. Gordon was commissioned an ensign in the United States Naval Reserve and assigned to the staff of the Naval Research Laboratory, Washington, D. C., in the chemical division as a development engineer. From 1948 to 1951 he was engaged in research and development engineering with General Electric Company at Pittsfield, Mass. For the time being he will be attached to the New York office of United States Potash Company.

National Starch Begins Research Labs Addition

Frank Greenwall, president of National Starch Products, Inc., New York, has announced that construction has begun on an addition to the present Alexander Research Laboratories in Plainfield, N. J. Mr. Greenwall pointed out that, "the additional construction to the research laboratories is one of the steps in National's recently announced $3,500,000 company-wide expansion program."

Plans for the combined laboratory call for a one-story structure containing 30,000 square feet, centrally located on a landscaped, eight-acre tract. National's intention is to centralize and integrate the research, development and technical staff of more than 150 people into this scientific center.

U. S. Testing Co. Publishes Book Of Scientific, Engineering Tables

United States Testing Company, Hoboken, N. J., has published a booklet entitled "Selected Scientific and Engineering Tables and Data," in commemoration of its seventy-fifth anniversary. The 112-page paper-bound volume contains selected chemical and physical, engineering, plastics, bacteriological, leather, psychometric and textile tables and charts, arranged for easy refenrce. Copies are available from the company.

BERKSHIRE

BORON
CARBAMATES • MERCURIALS
ZIRCONIUM CHEMICALS
VANADIUM CHEMICALS
AGRICULTURAL MAGNESIA

EPSOM SALTS, USP and TECHNICAL

POTASSIUM NITRATE, REFINED

SODIUM CHLORITE, 80%

CHLORITE STABILIZER

BERKSHIRE *Chemicals inc*
GRAYBAR BUILDING
420 LEXINGTON AVENUE • NEW YORK 17
LExington 2-5959 • "BERKSKEM" New York
55 New Montgomery St. • San Francisco 5, Cal.
Represented in Philadelphia, Boston, Cleveland and Chicago through the Innis, Speiden offices.

Goodrich-Gulf Picks Morgan To Manage Sales Operations

Goodrich-Gulf Chemicals, Inc., Cleveland, Ohio, has appointed Samuel D. Morgan manager of sales operations. For the past nine years, Mr. Morgan has been on loan from B. F. Goodrich Company, Akron, Ohio, to the government as chief of the sales division of the Office of Synthetic Rubber.

Goodrich-Gulf Chemicals, a corporation jointly owned by B. F. Goodrich and Gulf Oil Corporation, Pittsburgh, Pa., was the successful bidder on the government's Port Neches, Tex., synthetic rubber plant and is one of the largest producers of GR-S. The firm also owns a half interest in a butadiene plant.

Mr. Morgan joined Goodrich in 1942. He became treasurer of the Hycar Chemical Company, at that time an affiliate of B. F. Goodrich. His governmental appointment came in 1946.

Pfizer Names D'Antonio Its Director of Purchases

Frank J. D'Antonio, assistant purchasing agent since 1927, has been appointed director of purchases of Chas. Pfizer & Co., Brooklyn, N. Y. Mr. D'Antonio succeeds William W. Atkinson, who retired July 1. Announcement was also made of the advancement of V. Eric Johnson to the post of plant purchasing agent at the company's Brooklyn installation. Mr. D'Antonio joined Pfizer as an assistant buyer in 1917. Mr. Johnson was engaged in purchasing in the chemical industry for thirteen years before joining Pfizer in 1949.

Int'l Minerals Plans Building

International Minerals & Chemical Corporation will build a new $250,000 office building at its potash mine and refinery near Carlsbad, N. M. Work will start immediately. The building is expected to be ready for occupancy about March, 1956.

ESCULIN RUTIN QUERCETIN

KARL B. ROSEN & CO., INC.
Extractives — Medicinal Chemicals
120 Liberty Street • New York 6, New York

Imported

TANNIC ACID powd. "SCHERING"
DIGITALIS Leaves purp.
Tremendous price advantage, immediate delivery from Los Angeles
HOSCO CHEMICAL WORKS, INCORPORATED
8623 West Third Street • Los Angeles 48, California

MENTHOL U.S.P. XIV PROPAC BRAND®
Large (Oriental Type) Crystals *Regular Crystals*
EPHEDRINE HYDROCHLORIDE AND SULFATE U.S.P.
Powder and Crystals
PAPAIN CRUDE AND POWDERED N.F.
DIGITOXIN U.S.P. XIV—SANTONIN N. F.—THEOPHYLLINE U.S.P.

The River Plate Corporation
WAX AND CHEMICAL DIVISION
573-589 FERRY ST. NEWARK 5, N. J.
Telephone: MArket 4-0410
Cable Address: RIVABID, Newark, N. J.

CORRESPONDENTS
London, Paris, Frankfurt, Hamburg, Amsterdam, Brussels, Milan, Tel Aviv, Bombay, Madras, Calcutta, Tokyo, Osaka, Ceylon, Johannesburg, Rio de Janeiro, Buenos Aires

Trade BPC Mark
Fine Chemicals

PHARMACEUTICAL CHEMICALS

AMINOACETIC ACID
AMINOPHYLLINE
AMPHETAMINE (base and salts)
BENZOCAINE
BENZYL ALCOHOL
CHLORBUTANOL
8-HYDROXYQUINOLIN
OXYQUINOLIN BENZOATE
OXYQUINOLIN SULPHATE
POTASSIUM OXYQUINOLIN SULPHATE
PENTOBARBITAL SODIUM
PHENOBARBITAL
PHENOBARBITAL CALCIUM
PHENOBARBITAL SODIUM
SECOBARBITAL SODIUM
THEOPHYLLINE

AROMATIC and FLAVORING CHEMICALS

BENZYL ALCOHOL
CINNAMIC ACID
DIACETYL
ETHYL PHENYL ACETATE
PHENYL ACETIC ACID

TECHNICAL CHEMICALS

BENZALDEHYDE
BENZOIN
BENZYL ALCOHOL
BENZYL CHLORIDE
BENZYL CYANIDE
CYANOACETAMIDE
DIBENZYL ETHER
DIPHENYLACETIC ACID
ETHYL CYANO ACETATE
GLYCINE ETHYL ESTER HYDROCHLORIDE

SPECIALTIES FOR PENICILLIN MANUFACTURERS

METHYL PHENYL ACETATE
N,N'-DIBENZYL ETHYLENE DIAMINE DIACETATE
PHENYLACETAMIDE
BETA PHENYLETHYLAMINE
POTASSIUM PHENYL ACETATE SOLUTION
PHENYL ACETIC ACID

MALONATES

ALLYL-1-METHYLBUTYL DIETHYL MALONATE
n-BUTYL DIETHYL MALONATE
ETHYL-DIETHYL MALONATE
ETHYL-1-METHYBUTYL-DIETHYL MALONATE
ETHYL-1-METHYLPROPYL-DIETHYL MALONATE
ETHYL-PHENYL-DIETHYL MALONATE
1-METHYLBUTYL-DIETHYL MALONATE
1-METHYLPROPYL-DIETHYL MALONATE
PHENYL DIETHYL MALONATE

NEW INTERMEDIATES

α-ACETYL-α-TOLUNITRILE (α-Phenylacetoacetonitrile)
ALLYL ACETONE (5-Hexen 2-one)
BENZILIC ACID
CHRYSANTHEMUM-MONOCARBOXYLIC ACID ETHYL ESTER
2,5-DIMETHYL HEXADIENE-1,5
2,5-DIMETHYL HEXADIENE-2,4
ETHYL-α-ALLYLACETOACETATE (Ethyl-2-Acetyl-4-Pentenoate)
PHENYL ETHYL ACETIC ACID (α-Phenyl Butyric Acid)
1-PHENYL-2-PROPANONE (Phenyl Acetone)
TRIGLYCOLLAMIC ACID

BENZOL PRODUCTS COMPANY
237 SOUTH STREET, NEWARK 5, N. J.

Imports at United States Ports

New York

AGAR—100 bls, S B Penick & Co, Kobe
50 bbls, Rotterdam
ALCOHOL, CETYL—61 ctns, Southampton
PROPARGYL—14 dms, Hensel Bruckmann & Lorbacher, Rotterdam
ALOE—23 cs, Grace National Bank, Ciudad Trujillo
ALUM—420 bgs, C M C Chemicals Inc, Liverpool
AMINOPYRINE—15 cks, Harve
AMMONIUM BICARBONATE—200 dms, Chemical Manufacturing Co, Glasgow
AMYRIS OIL—2 dms, Ungerer & Co, Port Au Prince
ANILINE DYES—2 cans, C A Haynes, Rotterdam
22 dms, C A Haynes, Hamburg
57 dms, Hensel Bruckmann & Lorbacher, Hamburg
10 cms, Arondy Corp, Rotterdam
3 dms, C A Haynes, Rotterdam
2 dms, Nyanza Color & Chemical Co, London
5 dms, Ciba Co, Bremerhaven
35 dms, Nadiez Chemical Works, Havre
11 dms, Heemsoth Kerner, Glasgow
10 dms, C A Haynes, Hamburg
2 dms, Hensel Bruckmann & Lorbacher, Rotterdam
25 dms, Nova Chemical Corp, Rotterdam
ANISE SEED—198 bgs, Vera Cruz
ANTIMONY OXIDE—1,000 bgs, National Lead Co, Glasgow
APRICOT KERNELS—400 bgs, Chase Manhattan Bank, Istanbul
ARGOLS—1,000 bgs, Tartaric Raw Materials, Leghorn
500 bgs, Lisbon
BARBASCO ROOT—85 bgs, H A Astlett & Co, Callao
66 bls, National City Bank, Callao
BEESWAX—85 bgs, Wm Diehl & Co, London
35 bgs, Schutte & Focke, Ciudad Trujillo
29 bgs, Irving Trust Co, Sanchez
68 bgs, Curacao Trading Co, Ciudad Trujillo
30 bgs, Ciudad Trujillo
38 bgs, Santiago
38 bgs, Tampico
BERGAMOT OIL— 8 hf cs, Antoine Chiris & Co, Messina
20 hf cs, Citrus & Allied Essential Oils, Messina
8 hf cs, Messina
BISMUTH—170 bxs, Cerro de Pasco Corp, Callao
BLANC FIXE—600 bgs, C J Osborn & Co, Rotterdam
BLEACHING POWDER—102 dms, Chemical Manufacturing Co, Glasgow
BONE ASH—3 bgs, Hammill & Gillespie, Liverpool
FLOUR—40 dms, Gallard Schlesinger, London
MEAL—351 bgs, Genoa
CADMIUM—700 cs, Cathay Mercantile Corp, Yokohama
8 bxs, Cerro de Pasco Corp, Callao
CAFFEINE—15 dms, Byron Chemical Co, Marseille
CALCIUM CARBONATE, PRECIPITATED—1,000 bgs, H J Baker & Bro, Avonmouth
GLYCEROPHOSPHATE—5 cks, Havre
CAMPHOR OIL—25 dms, Orbis Products Corp, Kobe
CANDELILLA WAX—414 bgs, Tampico
CARAWAY SEED—200 bgs, R J Spitz, Rotterdam
CARNAUBA WAX—256 bgs, Frank B Ross Co, Fortaleza
333 bgs, M Argueso & Co, Fortaleza
166 bgs, Cornelius Products Co, Fortaleza
113 bgs, Smith & Nicols, Bahia
100 bgs, Wm Diehl & Co, Rio de Janeiro
87 bgs, Wm H Muller, Amsterdam
CASEIN—600 bgs, Borden Co, Buenos Aires
1,000 bgs, Pacific National Bank, Melbourne
400 bgs, Frank Samuel & Co, Buenos Aires
CASHEW NUT SHELL LIQUID—202 dms, Colloid Chemical Lab, Cochin
155 dms, National City Bank, Cochin
100 dms, Mitchel Beck Co, Lourenco Marques
110 tons, Irvington Varnish & Insulator Co, Cochin
109 tons, Jacques Missir, Cochin
CASSIA—1,393 bls, Borneo Sumatra Trading Co, Rotterdam
403 bls, R J Spitz, Rotterdam
102 bls, P H Petry, Rotterdam
CASTOR BEANS—5,080 bgs, Baker Castor Oil Co, Bahia
8,334 bgs, D Levin, Bahia
OIL—268 tons, Bunge Corp, Bombay
194 tons, Wallace & Tiernan Inc, Bombay
300 tons, Recife
CELERY SEED—263 bgs, Otto Gerdau, Bombay
264 bgs, A G Dunn, Bombay
105 bgs, C Czarinkow, Bombay
88 bgs, Joensson & Cross, Bombay
88 bgs, P H Petry, Bombay
83 bgs, Hismoco American Co, Bombay
30 bgs, A G Dunn, Marseille
32 bgs, Louis Furth, Marseille
CHESTNUT EXTRACT—996 bgs, Barkey Importing Co, Naples
1,900 bgs, Chase Manhattan Bank, Naples
305 bgs, National City Bank, Naples
CHLORAL HYDRATE BROMIDES—6 cs, Lo Curto & Funk, London
CINNAMON QUILLS—75 bls, C M Van Sillevoldt, Colombo
CITRONELLA OIL—28 dms, London
15 dms, Lo Curto & Funk, Puerto Barrios
CLAY, BALL—94 tons, Moore & Munger, Avonmouth
CHINA—333 bgs, English China Clay Sales Corp, Avonmouth
CLOVE—100 bls, Karl H Landes & E Balint, Zanzibar
160 bls, Becker Mayer Seed Co, Zanzibar
100 bls, A G Dunn, Zanzibar
COALTAR DYES—2 dms, Hensel Bruckmann & Lorbacher, Rotterdam
20 dms, C A Haynes, Rotterdam
3 dms, Verona Dyestuffs, Rotterdam
COCOA LEAVES — 126 bls, Maywood Chemical Works, Salaverry
COCHINEAL—11 bgs, Callao
COCONUT OIL—275 tons, E F Drew & Co, Manila
442 tons, Manila
CODLIVER OIL—210 dms, Arista Oil Products Co, Aalesund
150 dms, Norwich Pharmacal Co, Bergen
CONDURANGO BARK—23 bgs, Callao
COPAIBA BALSAM—11 dms, Dodge & Olcott, Manaus
6 dms, Hollander Trading Co, Manaus
COPAL GUM—375 bkts, Guaranty Trust Co, Macassar
74 bkts, Bankers Trust Co, Macassar
397 bkts, Chase Manhattan Bank, Macassar
35 bgs, O G Innes Corp, Singapore
613 bkts, Macassar
COPPER CYANIDE—178 dms, Chemical Manufacturing Co, Glasgow
CORIANDER SEED—300 bgs, Wm E Martin, Casablanca
CORN STARCH—672 bgs, Universal Transcontinental Co, Rotterdam
CRESYLIC ACID—419 dms, H A Gogarty, London
108 tons, H A Gogarty, Avonmouth
900 dms, H A Gogarty, Avonmouth
130 dms, H A Gogarty, Liverpool
150 dms, M W Hardy & Co, London
CUBE ROOT—4,020 bgs, Astoria Panamericana, Iquitos
1,304 bls, Hecht Levis & Kahn, Iquitos
CUTTLEFISH BONE—100 cs, Tunis
DAMMAR GUM—175 bgs, O G Innes Corp, Singapore
28 bgs, France Campbell & Darling, Singapore
50 cs, Thurston & Braidich, Singapore
DEXTRIN—500 bgs, Guaranty Trust Co, Rotterdam
400 bgs, Guaranty Trust Co, Amsterdam
100 bgs, Chase Manhattan Bank, Amsterdam
DIVI DIVI—1,160 bgs, Porcella Vicini, Ciudad Trujillo
DOGGRASS ROOT—86 bgs, Meer Corp, Hamburg
EARTH COLOR—810 bgs, Naftone Inc, Rotterdam
675 bgs, Naftone Inc, Bremen
EUGENOL—4 cs, Shulton Inc, Yokohama
25 bgs, Chase Manhattan Bank, Larnaca
FENUGREEK SEED—113 bgs, W Mahenke, Casablanca
FERRIC SULFATE—8 dms, Mallinckrodt Chemical Works, La Guaira
FISHLIVER OIL—10 dms, Albumina Supply Co, Yokohama
2 dms, Arista Oil Products Co, Yokohama
3 dms, Mitsubishi Bank, Yokohama
FISHSCALE EXTRACT—2 cans, Mearl Corp, Rotterdam
FUEL OIL—43,924 bbls, Esso Export Corp, Caripito
264,000 bbls, Esso Export Corp, Aruba
36,039 bbls, Esso Standard Oil Co, Caripito
213,137 bbls, Shell Caribbean Petroleum Co, Punta Cardon
116,363 bbls, Asiatic Petroleum Corp, Curacao
103,638 bbls, Metropolitan Petroleum Corp, Punta Cardon
103,637 bbls, Metropolitan Petroleum Corp, Puerto La Cruz
GALL, OX—6 cks, Tupman Thurlow, Brisbane
SHEEP—2 dms, K Mayer, Dublin
GELATIN—200 bgs, Transatlantic Animal By Products Corp, Bremen
81 dms, D H Burdett, Avonmouth
20 dms, B Young & Co, London
1 cs, E I DuPont de Nemours & Co, London
GHATTI GUM—114 bgs, P A Dunkel, Bombay
29 bgs, S B Penick & Co, Bombay
GINGER—60 bgs, Kellys America Ltd, Kingston
GLUE—100 cs, Henneux Co, Rotterdam
331 bgs, Transatlantic Animal By Products Corp, Antwerp
200 bgs, M Corbett & Co, Marseille
PEARL—351 bgs, Transatlantic Animal By Products Corp, Antwerp
STOCK—304 bls, Bryan Bros, Barranquilla
1,163 pkgs, John Gorvers & Co, Puerto Cabello
298 bgs, Karr Ellis & Co, Liverpool
GLYCERINE—223 dms, C J Schellings & Co, Kingston
270 tons, Procter & Gamble Co, Manila
GRAPHITE—500 bgs, Asbury Graphite Mills, Colombo
250 bgs, C Pettinos, Colombo
47 dms, Subox Inc, Rotterdam
2,778 bgs, Asbury Graphite Mills, Kristiansund
GYPSUM—6,226 tons, U S Gypsum Co, Little Narrows
13,333 tons, U S Gypsum Co, Hantsport
10,400 tons, National Gypsum Co, Halifax
1,880 tons, Newark Plaster Co, Walton
600 bgs, C B Chrystal Co, Liverpool
HERRING MEAL — 900 bgs, Wilbur Ellis Co, Bergen
HYOSCINE HYDROBROMIDE—1 cs, Commercial Bank of Australia, Melbourne
IODINE, CRUDE—80 kgs, North Atlantic Fertilizer & Chemical Co, Yokohama
40 kgs, Robeco Chemicals Inc, Yokohama
164 kgs, Antony Gibbs & Co, Tocopilla
IPECAC ROOT—10 bgs, Meer Corp, Cristobal
4 bgs, Curacao Trading Co, Port Limon
11 bls, R S Arbib & Co, Manaus
IRON BLUE—95 dms, Van Oppen & Co, Liverpool
44 dms, Van Oppen & Co, Glasgow
OXIDE—136 bgs, Avonmouth
KARAYA GUM—468 bgs, Morningstar Nicol, Bombay
610 bgs, Brown Bros, Bombay
735 bgs, Stein Hall & Co, Bombay
796 bgs, Jacques Wolf, Bombay
88 bgs, Bank of N Y, Bombay
810 bgs, Colony Import & Export Corp, Bombay
123 bgs, P A Dunkel, London
KOLA NUTS—100 bgs, D Steengrafe & Co, Kingston
50 bgs, Meer Corp, Kingston
LABDANUM GUM—5 dms, Givaudan Corp, Alicante
LACTOSE—300 kgs, Nestle Co, Avonmouth
LAUREL LEAVES—23 bls, A Millner & Co, Casablanca
LEMON OIL—7 dms, W Mahenke, Vera Cruz
1 dm, Lo Curto & Funk, Vera Cruz
LEMONGRASS OIL—11 dms, Magnus, Mabee & Reynard, Cochin
6 dms, Van Ameringen-Haebler, Cochin
6 dms, A Verley & Co, Cochin
6 dms, French American Banking Corp, Cochin
41 dms, Lo Curto & Funk, Cochin
6 dms, Trubek Lab, Cochin
LIME OIL—2 dms, Felton Chemical Co, Port Au Prince
LIVERMEAL—874 bgs, A Johnson & Co, Rotterdam
LOCUST BEAN GUM—1,200 bgs, Morningstar Nicol, Portimao
200 bgs, Genoa
950 bgs, Morningstar Nicol, Genoa
800 bgs, Morningstar Nicol, Piraeus
100 bgs, T M Duche & Sons, Genoa
200 bgs, Bank of N Y, Piraeus
MACE—34 cs, Karl H Landes & E Balint, Grenada
8 cs, Hamburg
59 cs, Macassar
MAGNESIUM CARBONATE—75 cs, Chas L Huisking & Co, Liverpool
MANGROVE BARK—1,425 bgs, Barkey Importing Co, Tumaco
EXTRACT—1,500 bgs, Saxe Cutch Corp, Singapore
MARJORAM—120 bgs, A C Villagran, Callao
MENTHOL—27 cs, Consumers Import Co, Marseille
194 cs, Bank of America, London
MERCURY—284 flks, L H Keller & Co, Tampico
125 flks, Lo Curto & Funk, Tampico
MINERAL WAX—100 bgs, Dura Commodities Corp, Bremen
MOLASSES—4,017 tons, Southwestern Sugar & Molasses Co, Pointe A Pitre
3,115 tons, Industrial Molasses Corp, Bridgetown
2,870 tons, Southwestern Sugar & Molasses Co, Barahona
500 tons, W R Grace & Co, Salaverry
MUSTARD SEED—90 cs, Becker Mayer Seed Co, Copenhagen
200 bgs, Berns & Koppstein, Copenhagen
220 bgs, C Gulden, London
NAPHTHALENE—1,000 bgs, Marine Midland Trust Co, Avonmouth
1,000 bgs, Avonmouth
950 bgs, Koppers Co, London
NICKEL CARBONATE—60 dms, Atlantic Bank of N Y, London
CHLORIDE—34 dms, Harve
SULFATE—34 bbls, A V Berner, Gothenburg
10 cks, Danwill Co, Rotterdam
NIGER SEED—333 bgs, London
42 ctns, Caldwell & Co, London
NUTMEG—226 bgs, Dodge & Olcott, Padang
254 bgs, Lo Curto & Funk, Padang
36 bgs, Macassar
450 bgs, Karl H Landes & E Balint, Grenada
200 bgs, Fuerst Bros, Grenada
100 bgs, Otto Gerdau, Grenada
NUX VOMICA—135 bgs, London
OCOTEA CYMBARUM OIL—22 dms, Dodge & Olcott, Itajai
OITICICA OIL—450 tons, Brazilian Industrial Oils, Fortaleza
100 dms, Brazilian Industrial Oils, Fortaleza
OLIVE OIL—25 dms, N Maltezos, Piraeus
25 dms, Atlantic Bank of N Y, Piraeus
128 dms, First National N Y, Barcelona
113 dms, Credit Suisse, Barcelona
50 dms, Trade Bank & Trust Co, Seville
30 dms, Palermo
ORGANIC FISH MANURE—1,200 bgs, Marine & Animal By Products Corp, Lisbon
OURICURY WAX—112 bgs, Stranl & Pitsch, Bahia
PAPAIN—51 cs, Chas L Huisking & Co, Colombo
PAPRIKA—300 bgs, H Marmorek & Son, Alicante
247 bgs, Sopac Transport, Alicante
PATCHOULI LEAVES—324 bgs, L A Champon & Co, Mombasa
OIL—5 dms, Lo Curto & Funk, Penang
4 dms, Roure-Dupont Inc, Penang
PEATMOSS—2,668 bls, J E Bernard, Bremen
685 bls, Bruco Peatmoss Corp, Bremen
1,200 bls, Trans Sphere Trading Co, Bremen
500 bls, Lion Trading Co, Hamburg
3,680 bls, Lion Trading Co, Bremen
500 bls, Lewis Intern Co, Hamburg
1,500 bls, Gellco Inc, Bremen
2,000 bls, C Gastmeyer, Rotterdam
2,000 bls, E J Lang, Rotterdam
500 bls, E J Lang, Hamburg
1,250 bls, E J Lang, Bremen
750 bls, National Distributors, Bremen
1,000 bls, New Amsterdam Import Co, Bremen
1,700 bls, Marine Midland Trust Co, Bremen
7,075 bls, Premier Peatmoss Corp, Bremen
600 bls, Bremen
PEPPER, BLACK—510 bgs, Borneo Sumatra Trading Co, Singapore
140 bgs, Dalamal & Sons, Singapore
420 bgs, Polak Trading Co, Singapore
160 bgs, Polak Trading Co, Cochin
420 bgs, Virchand Panachand, Singapore
315 bgs, A C Israel, Singapore
140 bgs, J F Frank, Singapore
80 bgs, A C Israel, Colombo
160 bgs, Virchand Panachand, Cochin
160 bgs, Ludwig Mueller, Cochin
32 bgs, Manufacturers Trust Co, Cochin
140 bgs, Volkart Bros, Singapore
70 bgs, Becker Mayer Seed Co, Singapore
230 bgs, Borneo Sumatra Trading Co, Singapore
120 bgs, Borneo Sumatra Trading Co, Kuching
120 bgs, Far Eastern Rubber Importers, Kuching
490 bgs, Ludwig Mueller, Singapore
70 bgs, Internatio Retterdam, Singapore
160 bgs, Dalamal & Sons, Cochin
320 bgs, Cochin
80 bgs, M Goldedtz, Cochin
160 bgs, Volkart Bros, Cochin
80 bgs, A C Israel, Cochin
770 bgs, Joensson & Cross, Singapore
560 bgs, A G Dunn, Singapore
60 bgs, Virchand Panachand, Kuching
90 bgs, Joensson & Cross, Kuching
160 bgs, Indoscan Corp, Cochin
RED—125 bgs, Robeco Chemicals Inc, Kobe
WHITE—140 bgs, Virchand Panachand, Singapore
70 bgs, Joensson & Cross, Singapore
420 bgs, E H Simpson & Co, Singapore
PETROLEUM, CRUDE—413,124 bbls, Socony Mobil Oil Co, Puerto La Cruz
14,961 tons, California Oil Co, Sidon
100,395 bbls, Hess Inc, Las Piedres
200,000 bbls, Esso Standard Oil Co, Puerto La Cruz
195,555 bbls, Phillips Petroleum Co, Puerto La Cruz
PIMENTO LEAF OIL—2 dms, George Lueders & Co, Kingston
3 dms, Magnus Mabee & Reynard, Kingston
7 dms, Norda Essential Oil & Chemical Co, Kingston
3 dms, Fuerst Bros, Kingston
POLLACKLIVER OIL—15 dms, Consumers Import Co, Yokohama
100 dms, Arista Oil Products Co, Yokohama
POLYVINYL ACETATE RESIN—30 bbls, Colloids Inc, Hamburg
CHLORIDE RESIN—200 bgs, F L Kraemer, Kobe
1,995 bgs, Monsanto Chemical Co, Nagoya
POPPY SEED—350 bgs, Louis Furth, Glynia
POTASSIUM CYANIDE—178 dms, Chemical Manufacturing Co, Glasgow
FERRICYANIDE—200 bbls, Atlantic Raw Materials, Hamburg
400 bgs, Haras Co, Rotterdam
POTATO STARCH—2,420 bgs, Stein, Hall & Co, Marseille
PSYLLIUM SEED HUSKS—747 bgs, River Plate Corp, Bombay
372 bgs, T M Duche & Sons, Bombay
PYRENE—20 bgs, Hensel Bruckmann & Lorbacher, Rotterdam
PYRIDINE—10 dms, James E Fox, London
PYRITES—213 cks, American Metal Co, Leixoes
QUASSIA CHIPS—570 bgs, S B Penick & Co, Kingston
LOGS—28 tons, S B Penick & Co, Kingston
QUEBRACHO EXTRACT—1,080 bgs, Tanimex Corp, Buenos Aires
1,033 bgs, First National Boston, Buenos Aires
4,386 bgs, River Plate Corp, Buenos Aires
625 bgs, International Products Corp, Buenos Aires
1,866 bgs, Wm H Muller, Amsterdam
RAUWOLFIA ROOT—250 bgs, Lo Curto & Funk, Puerto Barrios
261 bgs, J M Rodgers, Puerto Barrios
40 bgs, Puerto Barrios
100 bgs, Meer Corp, Bangkok
RED EARTH—448 bgs, C J Osborn & Co, Avonmouth
1,600 bgs, Avonmouth
RICE STARCH—100 bgs, Stein, Hall & Co, Alexandria
ROSEMARY LEAVES—47 bgs, Louis Furth, Marseille
ROSEWOOD OIL—40 dms, Lo Curto & Funk, Iquitos
4 dms, R S Arbib & Co, Iquitos
1 dm, Dodge & Olcott, Iquitos
46 dms, Manaus
ROXITE WAX—14 bgs, Strohmeyer & Arpe, Rotterdam
SAFFRON—1 cs, National City Bank, Genoa
SAGO FLOUR—332 bgs, H Lennard & Co, Singapore
SALICYLIC ACID—23 dms, R J Saunders & Co, Rotterdam
SANDALWOOD—150 bgs, George Lueders & Co, Bombay
SASSAFRAS OIL, ARTIFICIAL—20 dms, Ungerer & Co, Kobe
SEEDLAC—250 bgs, United Shellac Corp, Bangkok
SENNA LEAVES—200 bls, Prentiss Drug & Chemical Co, Tuticorin
SESAME OIL—20 ctns, Katagiri & Co, Kobe
SHELLAC WAX—22 bgs, Dings & Schuster, Bremen
SODIUM ALGINATE—5 cks, F Henjes, Havre
CYANIDE—178 dms, Chemical Manufacturing Co, Glasgow
SILICOFLUORIDE—260 bgs, Riches Nelson, Rotterdam
SPERM OIL—3,937 tons, Archer Daniels Midland Co, Sandefjord
STARCH—20 bgs, Stein Hall & Co, Rotterdam
SWORDFISHLIVER OIL—7 dms, Consumers Import Co, Yokohama
TALC—2,286 bgs, Whittaker Clark & Daniels, Bombay
TAPIOCA—92 bgs, Standard Brands, Santos
351 bgs, Manhattan Paste & Glue Co, Itajai
FLOUR—1,000 bgs, M Rothschild & Co, Bangkok
400 bgs, Geismar & Co, Itajai
1,200 bgs, American Key Products, Itajai
7,340 bgs, Stein Hall & Co, Itajai
4,400 bgs, Morningstar Nicol, Kohsichang
1,000 bgs, Borneo Sumatra Trading Co, Bangkok
3,340 bgs, Morningstar Nicol, Bangkok
4,500 bgs, Manhattan Paste & Glue Co, Itajai
400 bgs, Chase Manhattan Bank, Tjirebon
THALLIUM SULFATE—3 cs, Hudson Shipping Co, Marseille
THIOUREA—1,200 bgs, Baird Chemical Corp, Kobe
THYROID POWDER—5 cs, Van Gelder Fanto Corp, Hamburg
TRAGACANTH GUM—4 cs, Thurston & Braidich, London
TRICHLOROTHYLENE—50 dms, Chemical Manufacturing Co, Liverpool
TURMERIC—64 bgs, Mincing Trading Corp, Madras
118 bgs, M J Golombeck, Kingston
ULTRAMARINE BLUE—10 bbls, J S & W R Eaklins, Rotterdam
UMBER—250 bgs, Chase Manhattan Bank, Larnaca
50 bgs, T H Deutz, Larnaca
UREA, SYNTHETIC—7,100 bgs, Chemical Manufacturing Co, Avonmouth
VALONIA CUPS—3,144 bgs, First National Boston, Izmir
783 bgs, Chemical Bank, Izmir
4,296 bgs, Barkey Importing Co, Izmir
EXTRACT—1,000 bgs, Olson Sales Agency, Piraeus
VANADIUM CONCENTRATES—400 bgs, Vanadium Corp of America, Callao
VANILLA BEANS—24 cs, Marseille
14 cs, Phila National Bank, Marseille
15 cs, Tradesman National Bank, Papeete
VETIVER OIL—1 dm, India Corp, Port Au Prince
WHITING—1,200 bgs, N H Weitzner, Antwerp
800 bgs, Whittaker Clark & Daniels, London
WOOL GREASE—107 dms, N I Malmstrom, London
81 dms, Chemical Bank, Genoa
ZINC-AMMONIUM CHLORIDE—13 dms, Lo Curto & Funk, Liverpool
OXIDE—143 bgs, Weitzel & Reinhard, Rotterdam
ZIRCON—18 bgs, C Tennant Sons & Co, Liverpool
SAND—6,000 bgs, C Tennant Sons & Co, Brisbane

Baltimore

ARSENIC, CRUDE—29 bbls, American Smelting & Refining Co, Tampico
WHITE—78 bbls, American Smelting & Refining Co, Tampico
CADMIUM—20 cs, Samuel Shapiro, Yokohama
LITHARGE—100 dms, Tampico
PEPPER, BLACK—70 bgs, Otto Gerdau, Singapore
POTASH, MURIATE—1,359 tons, French Potash & Import Co, Antwerp
QUEBRACHO EXTRACT—1,096 bgs, River Plate Corp, Buenos Aires
1,490 bgs, Buenos Aires

Boston

BONE—661 bgs, Armour & Co, Montevideo
CASEIN—200 bgs, First National Boston, Buenos Aires
NICKEL ACETATE—10 dms, Pistorino & Co, Genoa
SULFATE—15 dms, Pistorino & Co, Genoa
TALC—2,015 bgs, Charles Mathieu, Genoa

Norfolk

QUEBRACHO EXTRACT—357 bgs, River Plate Corp, Buenos Aires

Los Angeles

AGAR—50 cs, Moorhead & Co, Yokohama
BEESWAX—49 bgs, Millers Honey Co, Sydney
COCONUT OIL CAKE—2,000 bgs, Internatio Rotterdam, Yokohama
COPAL GUM—70 bgs, H W Peabody, Manila
COPRA—653 long tons, Procter & Gamble Co, Cebu
500 long tons, American Trust Co, Cebu
600 long tons, Cargill Inc, Cebu
300 long tons, Balfour Guthrie & Co, Manila
700 long tons, American Trust Co, Manila
CAKE—880 bgs, Pacific Vegetable Oil Corp, Cebu
6,720 bgs, Wilbur Ellis Co, Manila
2,240 bgs, Pacific Vegetable Oil Corp, Manila
3,360 bgs, Atkins Kroll & Co, Manila
CUTTLEFISH BONE—100 cs, Seed & Feeding Corp, Yokohama
FISH MEAL—1,643 bgs, Albumina Supply Co, Callao
MOLASSES—1,000 long tons, Southwestern Sugar & Molasses Co, Manila
PEPPER, RED—60 bgs, S L Jones & Co, Yokohama
PETROLEUM, CRUDE—16,439 tons, Mohawk Petroleum Corp, Aruba
SESAME SEED—100 bgs, Lastreto Phillips Co, Corinto
100 bgs, R J Spitz, Corinto
450 bgs, H M Newhall, Corinto
400 bgs, B C Ireland, Corinto
SEEDLAC—100 bgs, East Asiatic Co Inc, Bangkok
250 bgs, Bangkok
TAPIOCA FLOUR—200 bgs, East Asiatic Co, Bangkok
VANILLA BEANS—10 cs, Williams Dimond Co, Papeete
WHITING—1,600 bgs, Pluess Stauffer, Antwerp
YEAST EXTRACT—80 cs, London

Philadelphia

ASBESTOS FIBER—640 bgs, Rubberoid Co, Lourenco Marques
2,553 bgs, Johns Manville Corp, Capetown
1,290 bgs, Lourenco Marques
3,200 bgs, Keasby & Mattison, Beira
600 bgs, Phila National Bank, Lourenco Marques
1,280 bgs, Durban
400 bgs, Beira
BONEMEAL—896 tons, Ralli Bros, Calcutta
CASEIN—500 bgs, F H Paul & Stein Bros, Rotterdam
1,000 bgs, National Casein Sales, Buenos Aires
CASTOR OIL—201 tons, Rohm & Haas, Bombay
CHESTNUT EXTRACT—713 bgs, Genoa
GLYCERINE—80 dms, C J Schellings, Yokohama
GYPSUM—10,759 tons, U S Gypsum Co, Hantsport
5,642 tons, U S Gypsum Co, Little Narrows
LICORICE ROOT—3,175 bls, Mac Andrews & Forbes, Antwerp
LOCUST BEAN GUM—200 bgs, T M Duche & Sons, Leghorn
NAPHTHALENE—500 bgs, Trans World Shipping Co, Rotterdam
4,158 bgs, Rotterdam
1,002 bgs, Antwerp
OLIVE OIL—50 dms, Guaranty Trust Co, Seville
PEATMOSS—1,500 bls, Van Zanten & Co, Bremen
1,800 bls, New Amsterdam Import Co, Bremen
4,250 bls, Bremen
950 bls, Halfmoon Manufacturing & Trading Co, Rotterdam
2,000 bls, Keer Maurer, Bremen
1,250 bls, Marine Midland Trust Co, Bremen
1,000 bls, Premier Peatmoss Corp, Bremen
1,750 bls, E Dunwoody, Bremen
PETROLEUM CRUDE—205,330 bbls, Socony Mobil Oil Co, Mena Al Ahmadi
203,672 bbls, Atlantic Refining Co, Mena Al Ahmadi
203,805 bbls, Gulf Oil Corp, Mena Al Ahmadi
117,762 bbls, The Texas Co, Covenas
132,500 bbls, The Texas Co, Puerto La Cruz

POTATO STARCH—4,410 bgs, Stein Hall & Co, Harve
QUEBRACHO EXTRACT—806 bgs, Olson Sales Agency, Buenos Aires
SHELLAC—100 bgs, Dings & Schuster, Bremen
50 bgs, Mantrose Corp, Calcutta
SODIUM NITRATE—4,000 tons, Guaranty Trust Co, Tacopilla
TAPIOCA FLOUR—400 bgs, Stein Hall & Co, Itajai
VANILLA BEANS—25 cs, Phila National Bank, Madagascar
WATTLE BARK—1,101 bls, Durban
EXTRACT—1,426 bgs, Durban
WHITING—36 tons, Antwerp
ZINC OXIDE—1,600 bgs, London

San Francisco

ASBESTOS FIBER—3,520 bgs, Keasby & Mattison, Beira
600 bgs, Lourenco Marques
COCONUT OIL—269 tons, Bank of California, Manila
COPRA—505 tons, Procter & Gamble Co, Cebu
1,600 tons, Cargill Inc, Cebu
400 tons, Cargill Inc, Dumaquete
1,100 tons, Procter & Gamble Co, Dumaquete
467 tons, Cargill Inc, Suriago
500 tons, Cargill Inc, Siain
460 tons, American Trust Co, Siain
CAKE—1,232 bgs, Balfour Guthrie, Manila
FISHMEAL—1,000 bgs, Marine & Animal By Products Corp, Talcahuano
333 bgs, Marine & Animal By Products Corp, Arica
1,031 bgs, Wessel Duval & Co, Mollendo
3,000 bgs, Woodward & Dickerson, San Antonio
1,163 bgs, Callao
GELATIN—20 bbls, Coignet Chemical Co, Antwerp
25 cs, Coignet Chemical Co, Antwerp
IRON OXIDE—3,528 bgs, Bank of California, Malaga
200 bgs, L H Butcher Co, Malaga
MOLASSES—1,180 tons, Southwestern Sugar & Molasses Co, Victorias
OLIVE OIL—33 dms, Hanover Bank, Malaga
20 dms, Tanga
PEPPER, BLACK—64 bgs, Borneo Sumatra Trading Co, Singapore
80 bgs, Mincing Trading Corp, Singapore
630 bgs, Singapore
PETROLEUM, CRUDE—409,624 bbls, Tidewater Associated Oil Co, Sungai Pakning
277,577 bbls, Standard Oil Co, Sungai Pakning
SESAME SEED—1,035 bgs, H M Newhall & Co, Corinto
SODIUM CHLORATE—910 dms, International Selling Corp, Marseille
TAPIOCA FLOUR—150 cs, Wing Coffee Co, Hong Kong
THIAMINE HYDROCHLORIDE—3 cs, D Hauser, Kobe
VITAMIN B,—15 cs, Byco Ltd, Kobe
WOOL GREASE—50 dms, Chase Manhattan Bank, Antwerp

Hercules Modernization

—*Continued from page* 4

early fall of 1956. The transfer of explosives operations from California to Utah will thus be gradual, as new facilities are completed at Bacchus.

The Contra Costa County plant, which began operations in 1887 under the name of the California Powder Works, was one of the first dynamite plants to be built in this country, and originally supplied the gold mining operations in California and Nevada. In recent years, increased demands for anhydrous ammonia by agricultural and industrial users brought about a 150 percent expansion of nitrogen products production at Hercules.

Relocation of the California plant's dynamite facilities will make areas available for any eventual plant expansion into additional chemical production. These facilities and other chemical operations at Hercules, Calif., will remain at the present site.

LAURYL ALCOHOL
50/58, 61/62, 70/75 and pure 90/96% C_{12}
manufacturer's exclusive distributors:
FALLEK PRODUCTS CO.
INCORPORATED
165 BROADWAY
NEW YORK 6, N. Y.

Progesterone U.S.P.
Testosterone
Testosterone Propionate U.S.P.
Methyl Testosterone U.S.P.
Desoxycorticosterone Acetate U.S.P.
Estrogenic Substance
Chorionic Gonadotropin
Prices on Request
VITAMERICAN OIL CORPORATION
1 John Street Haledon, N. J.

NOW OVER 5100 BIOS CHEMICALS
- LYSERGIC ACID
- MACLURIN
- MAGNESIUM ETHYL SULFATE
- MAGNESIUM GENTISATE
- MAGNESIUM HYPOPHOSPHITE
- MAGNESIUM OLEATE
- MAGNESIUM THIOCYANATE
- MALEONITRILE
- MALONYL CHLORIDE
- MANGANESE ARSENATE
- MANGANESE CHROMATE
- MANGANESE FLUORIDE
- MANGANESE GLYCEROPHOSPHATE
- MANGANESE SULFITE
- MELAM
- MELEM
- MELIBIASE
- MELISSYL ALCOHOL
- MELITTIC ACID
- MELITTIC TRIANHYDRIDE

Ask for our new complete catalogue.
BIOS Laboratories, Inc.
17 West 60th St. New York 23, N. Y.
Plaza 7-8171

PIONEERS IN ALKYL HYDRAZINES
▸ UNSYMMETRICAL DIMETHYLHYDRAZINE
in c. l. and l. c. l. quantities
▸ Other ALKYL HYDRAZINES
in research and semi-commerical quantities
METALECTRO CORPORATION
Laurel, Maryland • Phone: PArkway 5-3663

HORMONES
DEHYDROCHOLIC ACID, N. F.
(Oral and Injectable Grades)
OX BILE USP
DRIED OX GALL POWDER
We invite your inquiries
GEDEON RICHTER
PHARMACEUTICAL PRODUCTS INC.
20 Exchange Place, New York 5, N. Y.

Since 1909 Your Guarantee — Quality Service
Tragacanth IMPORTING CORP.
GUAR IRISH MOSS
Trade Mark Registered
GUM ARABIC
141 EAST 44th ST., NEW YORK 17, N. Y.
ONford 7-3216

BERYLLIUM • LANTHANUM • CERIUM
THORIUM and ZIRCONIUM SALTS • AMMONIUM BIFLUORIDE
TITANIUM POTASSIUM OXALATE
ABSORPTION BASE • CHLOROPHYLL • LANOLINE, U.S.P. • SAPONINE
BIOLOGICAL STAINS • ph BUFFER SOLUTIONS
"FIXANAL" CONCENTRATED PREPARATIONS FOR NORMAL SOLUTIONS
MOLDOL (Preservative)
SINCE 1900 Pfaltz & Bauer, Inc.
EMPIRE STATE BUILDING, NEW YORK

WALTER C. GREGORY CORPORATION
480 HENDERSON STREET, JERSEY CITY, NEW JERSEY SWarthmore 5-1010-1011
CUSTOM
GRINDING - CLEANING - MIXING - BLENDING - DRYING
GUMS - ROOTS - SPICES - DRUGS - PHARMACEUTICALS

TRAGACANTH
ORBIS PRODUCTS CORPORATION
601 W. 26th STREET NEW YORK

fine organic chemicals
p-DIMETHYLAMINOBENZALDEHYDE, pure
2:4 DINITROALPHANAPHTHOL, technical • 2:4 DINITROANISOLE, technical • 2:4 DINITROPHENYLHYDRAZINE
DIPHENYLCARBAZIDE, pure • DIPHENYLCARBAZONE, c.p.
DIPHENYLHYDANTOIN • DIPHENYLHYDANTOIN SODIUM
DIPHENYLTHIOCARBAZONE (DITHIZONE) c.p. • ETHYLCHAULMOOGRATE, N.F. VIII • ETHYL MORRHUATE, medicinal
ETHYL SUCCINATE, pure • ETHYLUREA, MONO
FINE ORGANICS, Inc.
211e East 19th St. · New York 3

GUMS
ARABIC
GHATTI
GUAR
KARAYA (INDIAN)
LOCUST (CAROB FLOUR)
TRAGACANTH
CASEIN
EGG ALBUMEN
BLOOD ALBUMEN
MENTHOL (NATURAL CRYSTALS)
JAPAN WAX
QUINCE SEED
REPRESENTATIVES:
CHICAGO: CLARENCE MORGAN, INC.
BOSTON: P. A. HOUGHTON, INC.
PHILADELPHIA: HARRY W. GAFFNEY
LOS ANGELES: C. H. OWINGS
ST. LOUIS: C. L. IORNS CO.
PAUL A. DUNKEL AND COMPANY, INC.
IMPORTERS AND EXPORTERS
26 JOURNAL SQ., JERSEY CITY 6, N. J.
TEL: JOurnal Sq. 3-6400
NEW YORK TEL: WOrth 4-3341
CHICAGO: 325 NO. WELLS ST.
TEL: SU. 7-2462

BEST ANIMAL GLUES IN FLAKE FORM

Manufactured to British Standard Specifications

Ranges 200 — 350 Gel Grammes

INQUIRIES INVITED

SHAW WALLACE & CO., Ltd.
Post Box 70
Calcutta, India

Factories at Calcutta and Madras

MONSANTO

CAFFEINE

Standard form: U.S.P. powder or flaked solid

Containers: 100 lb. fiber drums

Call any Monsanto office:

St. Louis, Atlanta, Boston, Chicago, Cincinnati, Cleveland, Detroit, Houston, Los Angeles, New York, San Francisco, Seattle, Twin Cities, Wilmington, Montreal.

Koppers Awarded Contract To Construct 25 Cokeovens

A contract to build a battery of twenty-five Koppers-Becker type cokeovens and auxiliary equipment has been awarded to Koppers Company, Pittsburgh, Pa., by Dominion Foundries & Steel, Ltd., Hamilton, Ontario.

This is the second contract to be awarded by this company to Koppers, who built a complete coke oven plant for Dominion Foundries in 1951. When the present contract is completed, Dominion Foundries will have a total of sixty ovens. The new battery, under normal operating conditions will have the capacity for processing 578 net tons of coal a day, producing about 435 net tons of coke per day.

Quaker Appoints Barker Metals Research Director

Dr. George E. Barker has assumed the position of director of metals research in the laboratories of Quaker Chemical Products Corporation, Conshohocken, Pa. Dr. Barker was associated with National Aniline & Chemical Company, now the National Aniline Division of Allied Chemical & Dye Corporation, until 1938. From 1938 to 1945 he was senior industrial fellow at Mellon Institute. From then until his association with Quaker, he was a group leader at Atlas Powder Company.

Obituaries

H. E. Hall

Harold E. Hall, president of Metals Disintegrating Company, died in Union, N. J., July 8. He was forty-five years old. The company, a subsidiary of American-Marietta Company, was founded by his father in 1916. In addition to being president, Mr. Hall also served as a director since 1943.

Wayne C. Yeager

Wayne C. Yeager, former director, vice-president and general manager of sales of Atlantic Refining Company, died July 3 in Allentown, Pa. He was seventy-two years old. He was with the company fifty-three years, having started as an office boy in 1896. Mr. Yaeger was elected a director of the company in 1930 and vice-president and general manager of domestic sales in 1935. He retired as general manager of sales in 1949.

William H. Brawley, a chemist with Celanese Corporation, New York, died July 9 in Elizabeth, N. J. He was sixty-two years old.

Raleigh B. Caudill, president and founder of Armstrong Chemical Products Company, Chicago, died July 10 in Harvey, Ill. He was forty-seven years old. D

J. Victor Hall, office manager of Sterling Drug, Inc., New York, died in that city on July 5. He was fifty-seven years old.

George S. Haslam, chief of products application in the research department of New Jersey Zinc Company (of Pa.), died at Palmerton, Pa., on July 5.

Dr. Wendell Mitchell Latimer, professor of chemistry at the University of California and chemical division director of the atomic energy commission's Livermore laboratory, died on July 6 in Oakland, Cal. He was sixty-two years old.

James O. Smith, sales representative of the organic chemicals division of North American Cyanamid, died on June 30 in Markham, Ontario. He was fifty-seven years old.

PAINT WITH A DIFFERENCE

More and more paint manufacturers are turning to the industrial perfumer for product malodor relief Masking compounds for paints have been a primary challenge to the perfume chemist, involving as they do the twofold problem of deodorizing the solvents and thinners, then masking the oils and resins. In the D&O Product Development Labs, this problem has received extensive attention resulting in the development of two specific masking products. .....Paideos which cover the disagreeable odor of oils or resins, and Petrodors which subsequently deodorize the solvents or thinners. Both have been exhaustively tested in the labs and in addition to their primary functions, they will not discolor paint or interfere with its flow or drying. For trial quantities or individual product testing in the Industrial Odorants Labs, consult your D&O representative.

Essentially for You

D&O ESTABLISHED 1798

Our 156th Year of Service

DODGE & OLCOTT, INC.
180 Varick Street, New York 14,
Sales Offices in Principal Cities

- ESSENTIAL OILS
- AROMATIC CHEMICALS
- PERFUME BASES
- FLAVOR BASES
- DRY SOLUBLE SEASONINGS

PABA USP XIV
Sodium & Potassium PABA
PUROCAINE, INC. *Manufacturing Chemists* • Hockessin, Del.

NEW FORMULA

VITAB
REG. U.S. PAT. OFF.

B-COMPLEX EXTRACT FROM YEAST AND RICE BRAN

VITAB has served as the one complete source of natural water soluble B-complex Vitamins for some twenty years. Now greatly improved in both taste and stability by combining it with a high grade yeast, B-complex extract, VITAB remains the ideal base for liquid vitamin preparations.

CHARLES BOWMAN & CO.

220 E. 42nd Street, New York City

FOUNDED T & B 1856

99 Years Serving the Trade in

GUMS

Arabic Karaya Tragacanth

Textile Print Gum (Tab-A-Tex)

Locust Bean Guar

Phone Algonquin 5-1588

THURSTON & BRAIDICH

286 Spring St., New York 13, N.Y. • Agents in Principal Cities in U.S.A.

Warehouses: P. N. SODEN & CO. LTD.—2143 St. Patrick Street, Montreal, Canada
A. C. DRURY & CO. INC.—219 East North Water Street, Chicago, Illinois
MELVIN VINCENT ASSOC.—1807 East Olympic Blvd., Los Angeles, California
M. O. GROVE & CO.—310 Sacramento Street, San Francisco, California

Essential Oils, Aromatics, Flavorings

After a period during which the trend in the majority of essential oil price changes was downward, last week saw the market reverse itself. A 10 cent decline in cedarwood oil was the sole reduction while advances were noted in three oils. Sandalwood oil advanced 25 cents, reflecting the continued scarcity of the oil on spot and the likelihood of further price rises in the near future. Spearmint oil advanced 25 cents during the week in response to reports that the new crop had been damaged by frosts earlier this year.

Florida orange oil continued to edge higher, advancing 2 cents per pound. The reversal in the downward trend which had been the feature of the Florida oil for so long came as no surprise to most trade observers, it having been long believed that when demand began to climb, prices would follow. The recent heat spell was quite effectual in improving the tone of the market since demand for many of the flavoring oils increased, particularly the citrus group, which is used in substantial quantities by soft drink manufacturers.

Despite the seasonal lull in many industries, trading volume among essential oils dealers was reported good and the overall outlook for this year is for continued prosperity.

The seeds and spices market underwent another dull week, on the whole. Buyers continued strictly hand-to-mouth and the fact that the market has been declining in recent months has had a restraining influence on sales since, buyers generally hold back in a bearish market.

Among the number of items to undergo price changes last week were decorticated, Guatemalan and green, Ceylon cardamom seed. The former advanced 15 cents and the latter, 10 cents. Also higher were Roumanian and Yugoslavian coriander seed and Indian fennel seed, which was advanced 1 cent. Turkish laurel leaves advanced 1 cent and all grades of mace were stronger in view of their continued scarcity and steady consumer inquiry. Dealer stocks were reported to be quite small and the outlook for any early improvement, poor.

French celery declined 1 cent in addition to all grades of ginger which were off a similar amount despite continued paucity of supplies.

Price Trends

Advanced

Cardamom seed, decorticated, Guatemalan, 15c. per lb.
green, Ceylon, 10c. per lb.
Coriander seed, Roumanian, ½c. per lb.
Yugoslavian, 1c. per lb.
Fennel seed, Indian, 1c. per lb.
Laurel leaves, Turkish, 1c. per lb.
Mace, East Indian, siftings, 7c. per lb.
West Indian, whole, 5c. per lb.
Oil, orange, Florida, 2c. per lb.
Sandalwood, 25c. per lb.
Spearmint, 25c. per lb.

Reduced

Celery seed, French, 1c. per lb.
Cinnamon, Ceylon, #2, 2c. per lb.
Clove, Madagascar, 1c. per lb.
Ginger, African, 1c. per lb.
Jamaican, 1c. per lb.
Nutmeg, East Indian, 1c. per lb.
West Indian, ½c. per lb.
Oil, cedarwood, 10c. per lb.
Pimento, Mexican, 1c. per lb.
Thyme, French, 1c. per lb.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	July 16, 1954
135.93	135.88	135.89	137.92

(For Current Prices see Page 9)

Essential Oils

Bay—There was no change in the spot market last week, however, some reports in the trade stressed the possibility of higher selling prices later this year resulting from increased production costs at origin.

Camphor—There has been some further easing in camphor 1.070 (artificial sassafras) according to trade reports. One report had the minimum price in the market down to 80c. but, in general, the lowest confirmed quotation remained at 90c.

Cedarwood—The spot market declined 10c. last week as consumers continued to buy mainly hand-to-mouth. The current market was 70c. to $1.20 per pound.

Lemon—Prices retained their stability. Demand was running at seasonally good levels while supplies were adequate to meet the increase in consumption resulting from the recent heat spell.

Orange—Florida orange oil continued to advance last week, rising 2c. per pound to a low of 50c. The recent heat spell did much to increase the consumption of orange oil since it is a heavy favorite in the manufacture of flavoring extracts used by soft drink manufacturers.

Sandalwood—The spot market advanced to a low of $14 last week. Stocks in dealers hands were reportedly quite low and the outlook was for a continued rise in prices.

Spearmint—Reports of some damages to the new crop slated to start next month were credited with the 25c. rise in the market low last week. The current market ranged from $4.25 to $5.30 per pound.

Miscellaneous

Cardamom Seed—The spot market was higher last week on both decorticated Guatemalan and green Ceylon grades. The former was advanced 15c. to $2.25 and the latter was up 10c. per pound and quoted at $2.10 to $2.20. Other qualities held unchanged, it was noted.

Celery Seed—French celery seed declined 1c. per pound last week and was currently quoted at 36c. Indian seed was unchanged at 16c.

Cinnamon—In the first price change in weeks, Ceylon No. 2 cinnamon declined 2c. to 54c. per pound. The "0000" grade was unchanged at 76c.

Clove—Madagascar and Zanzibar cloves were lower last week in the face of dull consumer inquiry. Current prices were 45c. for the Madagascar and Zanzibar qualities.

Coriander Seed—Moroccan coriander seed, awaiting release late last week was quoted at 15c. per pound. Roumanian and Yugoslavian qualities were also higher the former advancing ½c. to 8c. per pound and the latter, 1c. to 8c.

Fennel Seed — Indian fennel seed advanced 1c. to 12c. per pound last week. The market was reportedly higher abroad, accounting for the increase on spot.

Ginger—Despite the fact that ginger is scarce and future shipments expected to continue few and small, the indifference on the part of consumers once again led to a slight easing in the spot market last week. All available grades were off 1c. The current market prices on Jamaica ginger No. 2 was 44c. and on No. 3 grade, 44c. Sierra Leone ginger was quoted at 34c. and Nigerian split ginger at 29c. Some trade quarters anticipate higher prices this coming fall when consumption increases.

Laurel Leaves—Turkish laurel leaves were advanced 1c. last week and were quoted at 24c. Other qualities remained steady.

Mace—The lower grade East Indian siftings advanced 7c. last week bringing the current range on all grades of siftings to $1.45 to $1.70 per pound. West Indian whole mace was advanced 5c. to $1.60 per pound.

Nutmeg—Replacement costs were said to be higher than the spot market at present. Last week saw the market decline 1c. on East Indian nutmegs and ½c. on the West Indian quality. The former was currently quoted 42c. to 43c. per pound and the latter, 37c. to 37½c. Consumer inquiry was reported slow.

Pepper—There were no price changes in the spot market last week. India showed no desire to meet spot levels despite weeks of dull trading. Singapore's offerings were only fractionally below spot and afloat levels and no real pressure was displayed in cable offerings. Sarawak suppliers found a ready demand at about 4c. to 5c. below Lampong and Malabar. The sharp decline in shipments of Malabar will mean that monthly arrivals will barely balance current requirements, according to some reports. Spot stocks of white pepper are tight and current arrivals are moving directly into consumption. Even late July arrivals are finding demand. Shipment levels are unchanged but any advance in black would touch off white as supplies here and close by are very limited. Better quality chillies such as Hontakas and Santakas are moving. Nigerian and Turkish have not shared in the demand as yet but there are only a small number of lots available at competitive prices. Newcrop Carolinas should be attractive to those needing quality peppers in the fall, it was said.

Pimento—The spot market was generally quiet last week with consumer inquiry reported light. Mexican quality pimento declined 1c. to 74c. while the Jamaican material held unchanged.

Thyme—French thyme was off 1c. in the first price change in several months. Inquiry was dull and the current market held at 19c. while Spanish quality held steady at 9c.

For Late Market Developments, See Page 4

The Pick of the World's Markets

MAGNUS, MABEE & REYNARD, INC.

FLAVORS For MEDICINES

AROMATIC MIXTURE B-48 MM&R
Citrus and spicy flavor. Overcomes bitter aftertaste

AROMATIC MIXTURE C-48 MM&R
Minty flavor. For carminative syrups, etc.

AROMATIC MIXTURE D-48 MM&R
Lemon-vanilla topnote.

AROMATIC MIXTURE L-48 MM&R
Spicy vanilla flavor. Overcomes aftertaste.

Write for Prices.

MAGNUS, MABEE & REYNARD, INC.
The World's Most Famous Supplier of Essential Oils and Flavors.
16 DESBROSSES STREET, NEW YORK 13, N. Y.
221 NORTH LaSALLE STREET, CHICAGO 1, ILL.
Since 1895

OIL of PEPPERMINT SPEARMINT
Of the Choicest Quality
A. M. TODD COMPANY
KALAMAZOO, MICHIGAN

Florasynth LABORATORIES, INC.
AEROSOL BOUQUETS & MASKING ODORS for INDUSTRIAL PURPOSES
900 VAN NEST AVE. NEW YORK 62, N.Y.
Chicago 6, Los Angeles 21 and other principal cities in the U.S., Canada and Mexico

ESSENTIAL OILS • PERFUME OILS • FLAVORS • AROMATIC CHEMICALS and ODOR MASKS
Proven Replacements For: BERGAMOT OIL, CITRONELLA OIL, ANISE OIL, CASSIA OIL
DOMESTIC EXPORT YOUR INQUIRIES SOLICITED
D. W. HUTCHINSON & CO., INC., 700 South Columbus Ave., Mount Vernon, N.Y.
Founded 1896 Telephone: MOunt Vernon 4-7272

ANNOUNCING A PURER, MORE ECONOMICAL EUGENOL

Extensive laboratory research and the employment of refined manufacturing techniques now enable us to offer users of Eugenol a vastly improved product—finer, cleaner, and more economical than any we have ever observed. This new product is entirely free of the undesirable side effects often observed in the ordinary commercial grades. Samples and prices of EUGENOL USP XIV EXTRA available upon request.

FRITZSCHE Brothers, Inc. Established 1871
PORT AUTHORITY BUILDING, 76 NINTH AVENUE, NEW YORK 11, N.Y.
BRANCH OFFICES and STOCKS: Atlanta, Georgia, Boston, Massachusetts, Chicago, Illinois, Cincinnati, Ohio, Cleveland, Ohio, Los Angeles, California, Philadelphia, Pennsylvania, San Francisco, California, St. Louis, Missouri, Toronto, Canada and Mexico, D.F. FACTORY: Clifton, N.J.

THERE'S *Design* IN FRAGRANCE TOO!

It is by brilliant design as well as imaginative artistry that a perfume meets with success in today's market.

The master perfume chemists of van Ameringen-Haebler, Inc. know markets, know perfumes, and are skilled in the creative arts of perfumery. Their guidance can help you design your next success.

MANUFACTURERS AND CREATORS OF THE FINEST PERFUME MATERIALS

van ameringen · haebler, inc.

521 WEST 57th STREET NEW YORK 19, N. Y.

J. T. Baker Chemical Co. Adds 3 to Research Staff

Dr. George E. Ham, director of research for J. T. Baker Chemical Company, Phillipsburg, N. J., has announced the appointments of E. F. Joy, James P. Bonsack and Edwin D. Hornbaker to its research staff.

Mr. Joy has become senior physical chemist in charge of the instrument laboratory. He had previously been with Mound Laboratory, Monsanto Chemical Company's atomic energy installation at Miamisburg, Ohio. Mr. Bonsack was a teaching assistant in analytical chemistry for two years at Lehigh University.

Mr. Hornbaker received his PhD from the University of Virginia last month.

Witco Makes Rojas a V. P.

Witco Chemical Company, New York, has appointed Henry W. Rojas vice-president of export marketing. Mr. Rojas, a specialist in export chemical sales, will be responsible for all present international operations of Witco, with headquarters in New York. For the past twenty-one years the new Witco executive has been with American Cyanamid Company, New York, most of the time as export manager of the industrial chemical division and as manager of the dyes and chemicals department of the Cyanamid Interamerican Corpora-

MM&R Appoints Agent

Magnus, Mabee & Reynard, Inc., New York, has announced the appointment of Miller S. Burgin as sales representative in the states of Missouri, Kansas, Nebraska, Colorado and Utah. Mr. Burgin previously represented MM&R in the south.

Copper Shortage Relief

—Continued from page 3

tional stockpile and the so-called defense production act inventory. Supplies in the latter category have been depleted, however, by releases made earlier in the year by ODM to meet earlier emergency conditions. Supplies from the national stockpile may be obtained only by an act of Congress or by a Presidential proclamation declaring a national emergency.

At the BDSA it was explained that the Defense Materials System, a system of channeling supplies of copper, steel and aluminum, to holders of defense contracts is still on the books and directives can be issued to copper suppliers directing them to make supplies available to defense contractors should the necessity for such action arise—if any supplies could be located.

No instance of defense contractors being without stocks and forced to terminate operations under government contracts have been brought to the attention of BDSA, however. Directives could be issued to make supplies available for civilian uses.

Arcadian*

AMMONIA LIQUOR
ANHYDROUS AMMONIA
A-N-L* FERTILIZER COMPOUND
NITRATE OF SODA
NITROGEN SOLUTIONS
SULPHATE OF AMMONIA
12-12-12 GRANULAR FERTILIZER
UREA PRODUCTS

*Trade mark of Allied Chemical & Dye Corporation.

NITROGEN DIVISION ALLIED CHEMICAL

NITROGEN DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 Rector Street, New York 6, N.Y.

POLAK & SCHWARZ
INCORPORATED

667 WASHINGTON ST., NEW YORK 14, N. Y.

WEST COAST DIVISION, 3573 HAYDEN AVENUE
CULVER CITY, CALIFORNIA

CHICAGO, 173 WEST MADISON STREET

- PERFUME SPECIALTIES
- FLAVORS
- AROMATIC CHEMICALS
- ESSENTIAL OILS
- COLORS

AFFILIATED COMPANIES:

BUENOS AIRES, ARGENTINA
VIENNA, AUSTRIA
BRUSSELS, BELGIUM
RIO DE JANEIRO, BRAZIL
TORONTO, CANADA
SANTIAGO, CHILE
ENFIELD, ENGLAND
BOIS-COLOMBES, FRANCE
EMMERICH, GERMANY
ZAANDAM, HOLLAND
JACARTA, INDONESIA
TEL AVIV, ISRAEL
MILAN, ITALY
OSLO, NORWAY
ROODEPOORT, SOUTH AFRICA
STOCKHOLM, SWEDEN
REINACH, SWITZERLAND

FLAVOR and COLOR

Win New Customers

ZIMCO Lignin VANILLIN • PARAKEET CERTIFIED FOOD COLORS

Sterwin's Zimco brand, produced continuously since 1937 is the *original pure lignin vanillin.* Its present high quality was achieved as a result of continuous research and development in our own laboratories.

Today Sterwin's Zimco vanillin is recognized by the entire Food Industry as *the* top quality product. There is no finer vanillin. Ask the man who uses it.

Are Dependable Colors prepared for discriminating buyers. Produced by leaders in the color field for the past 25 years.

- Unlimited Production Facilities
- Complete technical service
- Accurate Blendings
- National Distribution

Parakeet Colors help to stimulate sales.

Consult Your Flavor Supplier

Sterwin Chemicals inc.
SUBSIDIARY OF STERLING DRUG INC.
1450 BROADWAY, NEW YORK 18, N. Y.
2020 Greenwood Ave., Evanston, Ill.

Branch Offices:
Atlanta, Boston, Buffalo, Dallas, Evanston (Ill.), Kansas City (Mo.), Los Angeles, Minneapolis, Portland (Ore.), St. Louis

WORLD'S LARGEST SUPPLIERS OF VANILLIN

always a dependable source of supply!

FELTON Quality

- Essential Oils
- Aromatic Chemicals
- Perfume Bases
- Flavors & Flavor Materials

write for samples

FELTON CHEMICAL COMPANY, INC.
599 Johnson Ave., Brooklyn 37, N. Y.
Atlanta, Boston, Brooklyn, Chicago, Cleveland, Los Angeles, Montreal, Philadelphia, St. Louis, Toronto, Versailles, France

Natural Flower Products
Terpeneless Oils • Essential Oils
Perfume Compounds
Aromatic Chemicals
Flavoring Materials

Ungerer & Co.

CHICAGO BOSTON
PHILADELPHIA ST. LOUIS
LOS ANGELES ATLANTA

161 SIXTH AVENUE • NEW YORK 13, N.Y. Plant and Laboratories, TOTOWA, N. J.

Agricultural Chemicals

Producers made price adjustments for both cokeoven and synthetic ammonia liquor last week. Reductions of $8 per ton on synthetic and $3 per ton on cokeoven liquor were initiated following declines of up to $3 per ton made earlier by synthetic anhydrous ammonia producers in order to conform to cokeoven prices. Agricultural demand was dull due to the off-season, but industrial demand for both anhydrous ammonia and liquor was reported active.

The phosphate strike continued in Florida, and producers could not say when a settlement would be reached. There was some concern over dwindling supplies in some areas. Nearly all of the strikebound plants were said to be operating on an emergency basis, using supervisory help to manufacture and ship limited amounts of phosphatic materials.

Animal proteins were fairly firm last week with the exception of bonemeal, which was somewhat lower and fishmeal, the price of which was closely dependent on fishing conditions in the Atlantic and Gulf. Blood and tankage markets at New York and Chicago were quiet. Very little castor pomace was offered. Prices were nominal.

Pesticide producers and distributors were still optimistic about the cotton pesticide season. However, as yet the season had failed to materialize in terms of actual increases in sales volumes, particularly on the formulators' level. Feeling was strong that demand would pick up within the next few days, however.

Price Trends

Advanced

Fishmeal, $2.25 per ton.
Fishscrap, $1 per ton.

Reduced

Ammonia liquor, $3 per ton.
Bonemeal, $2.50 per ton.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	July 16, 1954
110.83	110.83	110.78	110.70

(For Current Prices see Page 9)

Animal and Plant Foods

Ammonia, Anhydrous—Agricultural demand was negligible during the week, although it was noted that industrial demand was holding up very well for a number of end uses. Preliminary figures compiled by the Bureau of Census show that May production of synthetic anhydrous ammonia totaled 296,557 tons, an all-time high, and was 3 percent higher than April output of 286,567 tons.

Producers reduced prices for ammonia liquor following recent price adjustments on synthetic anhydrous ammonia. Whereas previously, synthetic ammonia liquor sold for $96 per ton, and cokeoven, $91 per ton, both grades were reduced to a flat price of $88 per ton last week. Anhydrous ammonia was unchanged, at $85 per ton.

The Bureau of Mines reports that 3,431,667 pounds of ammonia liquor were produced in May, as compared with 3,117,544 pounds in April, and 3,170,496 pounds in May, 1954. Sales in May totaled 1,867,563 pounds, as compared with 2,080,664 pounds in April, and 2,539,284 tons in May, 1954, End-of-month stocks of ammonia liquor in May totaled 2,929,328 pounds, as compared with 2,822,466 pounds in April, and 1,616,213 pounds at the end of May, 1954.

Ammonium Nitrate—Demand was seasonally off. Prices were unchanged since last report. A 6 percent decrease in production of original solution was reported by the Bureau of Census for May. Output in May totaled 165,553 tons (100 percent NH_4NO_3) as against 176,348 tons in April.

Ammonium Sulfate—Export inquiry was fairly active during the week, particularly due to interest for shipment against Korean and Pakistani tenders. There appeared to be plenty of material around to fill needs of consumers. Small amounts were taken for mixing, but withdrawals against this end use were judged nearly negligible.

Some 171,251,310 pounds of cokeoven ammonium sulfate, an increase of 4.3 percent over the previous month, were produced in May, according to the Bureau of Mines. April production amounted to 164,133,847 pounds, and May, 1954, output was 132,412,847 pounds. Sales of cokeoven sulfate in May amounted to 172,805,920 pounds, as compared with 229,530,758 tons in April, and 121,022,835 tons in May, 1954. Stocks on hand at the end of May totaled 165,211,352 tons, as compared with 164,927,954 tons on hand at the end of April, and 73,332,054 tons on hand at the end of May, 1954.

Animal Protein—The market was quieter last week, and some bonemeal was sold for feed purposes at $65 per ton, a reduction of $2.50 per ton. Other meals held firm and unchanged, with demand spotty, excepting fishmeal, where prices rose somewhat is the Baltimore area and were higher or lower in other areas along the Atlantic and Gulf coasts, according to the volume of the menhaden catch.

Calcium Phosphate, Dibasic—The Bureau of Census reports that 14,333 tons were produced in April, as compared with 13,994 tons in March, and 10,190 tons in April, 1954. Stocks in producers' hands totaled 6,104 tons at the end of April, as compared with 6,482 tons on hand at the end of March. The figures are on a 100 percent $CaHPO_4$ basis.

Castor Pomace—The market continued nominal at $37.50 per ton, with very little available.

Phosphate Rock—The phosphate strike in Florida continued without letup last week. Producers could give no indication as to when the strike would terminate. Meanwhile, at least two mines and plants in the area continued to operate at normal schedules under an agreement with the union to grant whatever benefits labor obtained from the dispute.

In strikebound plants, limited business was being carried on with the aid of supervisory help. Production of ground and unground rock and superphosphate took place at a restricted rate, and shipments were being made from stockpiles which are normally heavy at this time of year.

However, since the strike began June 1, supplies have dwindled considerably, and there was fear in the minds of some that increased fall demand for mixing would exert heavy pressure on stocks unless the strike is settled soon. Some in the trade looked as far ahead as to predict that should superphosphate, a basic ingredient in mixed fertilizers, be unavailable to mixers, demand would correspondingly be lowered for potash and nitrogen fertilizers used in the mixes.

Potash—The market was quiet during the week. Producers continued to build up supplies for demand normally encountered for fall mixing. Prices were unchanged.

Superphosphate—Triple super, which had been in easy supply in some areas, showed signs of becoming less plentiful during the week due to the continuation of the phosphate strike. Normal superphosphate shipments were being made on a curtailed basis from strikebound plants with the use of supervisory help.

Pesticides

The following figures show production and sales of specified pesticides and other organic agricultural chemicals in 1954, according to the Tariff Commission.

Pesticides, cyclic	Pounds	Value
Fungicides and seed disinfectants:—		
Naphthenic acid, copper salt	3,557,000	$720,000
Phenyl mercuric oleate	142,000	.....
2,4,5-Trichlorophenol sodium salt	2,785,000	.....
All other	2,018,000	.....
Herbicides and plant hormones:—	49,491,000	19,454,000
2,4-D acid	30,184,000	5,189,000
n-Butyl ester	2,320,000	997,000
sec-Butyl ester	.....	452,000
Isopropyl ester	6,005,000	1,304,000
Other esters	8,595,000	1,778,000
Salts	5,615,000	2,554,000
2,4,5-T acid	2,697,000	1,610,000
esters	3,877,000	1,748,000
Phenyl mercuric acetate	598,000	2,878,000
All other[1]	3,571,000	4,011,000
Insecticides:—		
BHC	76,934,000	5,891,000
DDT	97,198,000	21,603,000
Parathion	3,889,000	6,494,000
All other[2]	57,506,000	24,938,000
Pesticides, acyclic		
Fungicides and seed disinfectants:—		
Dimethyldithiocarbamic acid, sodium salt	471,000	152,000
zinc salt (Ziram)	1,117,000	559,000
Insecticides:—		
Tetraethyl pyrophosphate	361,000	344,000
All other[3]	25,144,000	15,434,000

[1] Includes dinitro compounds, IPC, maleic hydrazide, and a small amount of phenoxyacetic acid derivatives.

[2] Includes aldrin, allethrin, chlordan, DDD, Dieldrin, endrin, EPN, lindane, toxaphene, and a small amount of rodenticides.

[3] Includes ferbam, organic mercury fungicides, manzate, nabam, zineb, sodium TCA, malathion, OMPA, soil conditioners, rodenticides.

For Late Market Developments, See Page 4

POTASSIUM CHLORIDE
FOR THE
Chemical and Fertilizer Industries

CHEMICAL GRADE
MURIATE OF POTASH
62.73% K_2O (99.3% K Cl) Minimum
HIGRADE
MURIATE OF POTASH
62/63% K_2O
GRANULAR
MURIATE OF POTASH
60% K_2O Minimum

SUNSHINE STATE POTASH
A PRODUCT OF NEW MEXICO U.S.A.

UNITED STATES
POTASH COMPANY
INCORPORATED
30 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.

BLEACHING POWDER
34/36% STABILIZED
E. M. SERGEANT PULP AND CHEMICAL CO., INC.
7 DEY STREET Established 1867 NEW YORK 7, N. Y.

Producers of
SULPHUR
Uniformly high purity of 99½% or better
TEXAS GULF SULPHUR CO. INC.
75 E. 45th Street New York 17, N.Y.
Mines: Newgulf and Moss Bluff, Texas

P.C.A.
The SALT of the EARTH
RED MURIATE
Producers of
Agricultural and Chemical Grade
MURIATE OF POTASH
POTASH COMPANY OF AMERICA
Carlsbad, New Mexico
General Sales Office... 1625 Eye Street, N. W., Washington, D. C.
Midwestern Sales Office... First National Bank Bldg., Peoria, Ill.
Southern Sales Office... Candler Building, Atlanta, Ga.

"I'm Studying a
SNELL RESEARCH REPORT

It conveys verve, sincerity and experience. They solve problems quickly and economically.

For 35 years Snell has rendered research services to science, government, industry and individual. No wonder more and more firms are turning to them.

Their senior executives are available for conference without cost or obligation. My suggestion is that anyone with problems confer with Snell".

Snell accords You an invitation to confer Without Cost or Obligation.

Foster D. Snell, Inc.
RESEARCH LABORATORIES
29 West 15th St., New York 11, N. Y.
WAtkins 4-8800

DRY COLORS — DYESTUFFS
IMPORT *EXPORT*
FEZANDIE & SPERRLÉ 205 Fulton Street NEW YORK 7
Telephones: COrtlandt 7-1460-1461 Cable Address: "Fezan," N. Y.

ELK BRAND *Pigment Grade* Antimony Oxide
BRADLEY MINING CO. 1022 CROCKER BUILDING SAN FRANCISCO 4, CALIF.

METOL
Monomethylparaminophenol Sulfate
Registered Trade Mark
TANNIC ACID GALLIC ACID
(U.S.P. and Technical Grades)
PYROGALLIC ACID
(U.S.P. and Technical Grades)
ZINSSER & COMPANY, INC. HASTINGS-ON-HUDSON NEW YORK
ESTABLISHED 1897 Subsidiary of THE HARSHAW CHEMICAL CO., CLEVELAND, OHIO

MUTUAL BICHROMATES
Sodium Bichromate
Potassium Bichromate
MUTUAL CHEMICAL DIVISION
ALLIED CHEMICAL & DYE CORPORATION
99 PARK AVENUE • NEW YORK 16, N. Y.

Textile and Leather Chemicals

Business in textile and leather chemicals was routine and restricted to actual needs last week. While trading was limited, the market was featured by a steady tone. Prices were well held for the entire list, with the exception of flake egg albumin which was unsettled by the weaker egg market, and quotations were off 1 cent per pound, while technical albumin and egg yolk were unchanged.

Potato starch was quiet, but steady. Stocks in Maine were not heavy and well held by most producers, though price shading was reported for an occasional carlot in some quarters. Locally, stocks were firmly held at former levels. Consuming inquiry continued keen for tapioca flour, especially for shipment from Brazil. This market was firm and a good volume has been placed of late for this material, with buyers showing good interest in forward deliveries. Offers from the Far East were scarce and market quotations were merely nominal. Corn starch and dextrin remained steady at prevailing prices. Demand continued good, and was up to seasonal volume. Sago flour was in fair request for actual needs, though interest in replacements from primary sources continued slow.

Despite the slow consuming demand for tanning materials usual at this season, the market remained steady, reflecting the strength of primary markets. Shipments were quotably unchanged and closely held.

Shoe production in May, according to the Bureau of the Census, totaled 47,671,000 pairs, or 22.7 percent more than in May, 1954, when output dropped to a low of 38,850,000 pairs. Output of men's work shoes was 54 percent greater than in May last year and an almost equal gain was reported for women's sandals and playshoes.

Output for the first five months amounted to 250,443,000 pairs or 14 percent more than in the same period of 1954. Practically all types of footwear participated in this gain although for some types the increases have been relatively small.

Price Trends

Advanced
None

Reduced
Egg albumin, flake, 1c. per lb.

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	July 16, 1954
104.63	104.63	104.62	95.78

(For Current Prices see Page 9)

Chemicals

Bichromates—Demand was routine and up to seasonal volume. Market was steady and quotably unchanged for all grades.

Sodium Acetate—Small lots were taken for immediate requirements. Prices were without change.

Sodium Hydrosulfite—Buying interest was restricted for small lots for actual needs. Prices were maintained at the recent advance of 2c. per pound.

Sulfonated Oils—Higher cost of tallow stiffened tallow sulfonated grades. Other varieties were quiet and unchanged.

Sizing Materials

Albumin Blood—Deliveries against contracts moved in fair volume, while new business was quiet. Prices were unchanged and steady at 65c. to 80c. per pound, according to quantity.

Corn Dextrin—Consuming demand was moderate for prompt delivery. Market was quotably unchanged and steady. Gum was quoted at $8.95 per 100 pounds, paper bags, carlots, New York delivery; canary $8.69; dark $8.79, and white $8.53, same basis. Less carlots were 15c. per 100 pounds higher.

Corn Starch—Business was reported fair. Prices were maintained at current levels. Pearl was quoted at $7.14 per 100 pounds, paper bags, carlots, New York delivery and powder, $7.29 per 100 pounds, same basis. Lesser quantities were 15c. per 100 pounds higher. Visible corn supply was increased 145,000 bushels to 27,621,000 bushels for the week ending July 8, compared to 14,129,000 bushels for the corresponding week last year, according to Chicago Board of Trade.

Corn crop as of July 1 was forecast at 3,449,000,000 bushels by the Department of Agriculture, compared to the final 1954 production of 2,964,639,000 bushels and the 1944-53 average of 3,080,115,000 bushels. Yield per acre was estimated at 42.7 bushels against 37.1 last year and 10-year average of 36.4 bushels.

Egg Albumin—This market was weakened by the lower egg market. Prices were easy and lower. Flake was quoted at $1.67 to $1.69 per pound and powder, $1.71 to $1.73 per pound, according to quantity. Trading was slow, restricted to actual needs. Technical was quiet and unchanged at 70c. to 85c. per pound, according to quantity and quality.

Egg production in June totaled 5,701,000,000, compared with 6,404,000,000 in May; 5,317,000,000 June last year and 10-year average of 5,092,000,000. Production during January-June inclusive amounted to 36,543,000,000, against 35,343,000,000 a year ago and 10-year average of 33,790,000,000.

Egg Yolk—Market was unchanged and fairly steady, despite the easier tone in eggs. Yolk was unchanged at $1.10 to $1.12 per pound, spot depending upon quantity. Demand was routine and about normal for this season.

Potato Starch—Interest in replacements was limited, though consumers continued to absorb a good volume of material against recent orders. Market in Maine was unchanged at 7c. to 7¼c. per pound, carlots, f.o.b. mills, according to seller. Some producers maintained the higher figure expecting the market to advance before production starts this season as current stocks were not burdensome. Offers from Idaho were freer and held at 6¾c. per pound carlots, f.o.b. mills. Imported starch was quiet, with shipments from France available at 7.35c. per pound, carlots, exdock, duty paid. Stocks on spot were steady at 9c. to 9½c. per pound, exwarehouse, according to quantity.

Potato production as of July 1 was forecast at 400,335,000 bushels by the Department of Agriculture. The 1944-53 average was 401,146,000 bushels. Acreage for harvest was estimated at 1,144,000 acres against the 10-year average of 1,967,000,000 acres.

Tapioca Flour—Consuming inquiry continued quite active for Brazilian flour replacement. Fair volume of business was booked for prompt and later shipment at unchanged prices. Market was firm at 6¼c. per pound, carlots, exdock. Stocks on spot were maintained at 7¾c. to 8¼c. per pound, exwarehouse, as to quantity. Offers for shipment from the Far East continued scarce, though buying interest of late has been centered in Brazilian flour.

Tanning Materials

Chestnut Extract—Buying interest has slackened as a result of vacation shutdowns of tanneries during the first and second half of July. Prices were without change. Liquid 25 percent tannin was quoted at 4c. per pound, tankcars, f.o.b. works; 4¾c. per pound, barrels, carlots, and 5.10c. barrels, less carlots; powdered 60 percent tannin, 10.32c. per pound, bags, carlots, and 11.02c. bags, less carlots; same basis.

Cutch — Shipments remained firm at 8½c. per pound, exdock, plus duty. Trading was reported slow.

Myrobalans—Offers for shipment were limited and closely held. Consuming inquiry was moderate. Market was firm. JI's were quoted at $66 per ton, exdock, for prompt shipment; crushed, $78 to $80, and Bombay, $60, same basis. Solid extract was maintained at 7¾c. per pound, exdock, plus duty.

Quebracho Extract—Trading was more active and reported at private terms. Asking prices were unchanged for shipment. Solid ordinary guaranteed 63 percent tannin was offered at 11 21/32c. and clarified 64 percent at 12 23/64c. per pound, exdock, plus duty.

Valonia—Buying interest lacked snap. Shipments were quotably unchanged for all grades. Cups were maintained at $46 to $48, exdock, and beards $66 to $68 per ton, same basis. Extract was firm at 8c. to 8¼c. per pound, exdock, plus duty.

Wattle—Steady conditions prevailed at primary sources. Business was slow, but replacements were well held at former levels. Fair average bark was quoted at $99 per ton exdock and merchantable, $95 same basis, prompt shipment. Extracts were well held. East African was quoted at 9¾c. per pound and South African, 10c. exdock, plus duty.

For Late Market Developments, See Page 4

Protective Coatings Materials

Coumarone and petroleum hyrocarbon resins and resin solutions were advanced by a major producer, with the increases in some grades amounting to 1½ cent per pound. Material was said to be moving well throughout the industry and the market was untroubled by shortages. Alkyd resin demand eased slightly, as the season for vacation shutdowns in consuming industries arrived. The decline in buying took some pressure off producers, but was not large enough to result in any extensive change in the level of sales. Maleics moved well to consuming channels.

Prices for dioctyl phthalate held steady. Most producers reported a good demand, but did note that some outlets had eased their requirements while closing for vacations. Demand for tricresyl phosphate was maintained steadily. Prices have made no change in the wake of the recent advances for cresylic acid. The price structure for poylvinyl materials was steady after recent widespread reductions. Pigment makers noted a continued good overall consumer interest, with the automobile industry accounting for a significant part of this volume. Materials going into exterior surface paints, however, showed some decline as demand from this segment of the market fell off somewhat, along seasonal lines. Lead pigments were affected by this development, but the overall position of lead pigments remained firm and steady. Zinc pigment prices were unchanged.

The shellac market in Calcutta was reported steady and strong. Prices for replacement were maintained evenly and without immediate prospect of lowering. Dealers in this country had previously expected lower prices by July, but now found that these wishes had been frustrated by the continued firm attitude in Calcutta. Buying locally was said to be fairly active, although most consumers limited their purchases to immediate needs and preferred not to stock heavily.

Argentine casein held its firm position and occupied a range of 23½ cents to 24 cents per pound, delivered New York, duty paid. France has not entered the market with competitive bids, and was not expected to do so this season. Some European countries, in fact, have been filling their needs from Argentina. Prices of zinc naphthenates and stearates held steady without moving upward in the wake of zinc sulfate quotations. Producers of these materials felt that there would be no price advances at this time.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	July 16, 1954
97.18	97.18	97.18	96.60

(For Current Prices see Page 9)

Prime Pigments

Carbon Blacks—Some tightness was reported in uncompressed channel blacks, while other grades of carbon black were in ample supply. Inventories of some grades of channel blacks have been going down, it was stated by informed sources, who noted that it was quite an expensive proposition to make channel blacks today. Demand has been quite good from the paint industry throughout the first six months of the year, and has given every indication of continuing during the present quarter, according to industry sources. The automobile and tire industries have also come into the market for good-sized amounts of material.

Cadmium Colors — Consumer interest has held up quite well so far during the summer, it was stated in the industry. Some decline in buying was expected during the next six weeks, as a number of consuming outlets restricted their needs and closed their facilities for summer vacations, but the decline was expected to be of short duration, if it materialized.

Copper Oxides — Demand for copper oxides has been quite good throughout the consuming industries, it was stated by manufacturers last week. Although most demands were being met without difficulty, there was no oversupply problem, by any means. Prices remained firm and unchanged.

Lead Pigments—A seasonal decline in sales was encountered, chiefly as a result of a falling-off in the consumption of exterior paints. The drop in sales activity was in line with the expectations of those in the industry, it was stated, and was expected to continue into next month. Prices for all lead pigments were maintained on an even keel, with no changes reported during the past week. Following the trend of the metal, quotations for lead pigments were considered firm at present levels.

Titanium Pigments—Demand was reported quite good, with supplies on the tight side. This was noted especially in the export market. Prices were quite firm and were not expected to change in the immediate future.

Zinc Pigments. — Buying interest has held up quite well in most producers' opinions. Taking their cue from the metal, prices were firm and steady throughout the past week. Supplies were entirely adequate.

Synthetic Resins

Alkyds—The market has eased slightly, according to sources in the industry, as the season for vacation shutdowns in consuming industries has arrived. The decline in buying has taken some pressure off of producers, but this has not resulted in an extensive change in the level of sales. The market has been strong and active so far this year in the estimate of most in the industry.

Coumarone—A major producer shifted its price schedules upward by 1½c. per pound on some of its grades of coumarone resins. The market appeared in a healthy state and fairly untroubled at the present, it was reported.

Maleics—Material moved quite well into consuming channels. Paint and varnish outlets have not reduced their requirements significantly, it was stated in the industry. Prices have been maintained without change by major producers.

Petroleum Hydrocarbons — Price advances were effected by one producer on some grades of its petroleum resins and resin solutions. The average per-pound increase amounted to about 1½c. Material was said to be moving well throughout the industry.

Lacquer Materials

Dioctyl Phthalate—Prices held the line without change throughout the past week. Most producers reported a good demand, but did note that some outlets has eased their requirements substantially while closing for vacations. The tight situation in phthalaic anhydride was felt in the market for DOP but resulted in no actual shortage of supplies.

Sebacates—A fairly good demand has been encountered from the consuming industries, it was reported during the week just past. Producers expected, however, that the next few weeks would be devoid of wide shifts either in regard to production levels or consuming interest. Prices were maintained without variation over the week.

Tricresyl Phosphate—Demand from several directions has been quite good, according to the makers' reports over the week. Producers found no difficulty in meeting their shipping schedules, however. Following the recent advance for

Protective Coatings Shipments, Output: May

	Factory shipments—Dollars		†Reported production—Gallons	
	May	*April	May	April
Trade sales products: paint, varnish and lacquer	$88.954.000	$81.993.000	22.785.000	21.620.000
Industrial sales products, total	54.443.000	53.096.000	20.262.000	20.055.000
Paint and varnish	40.756.000	39.477.000	14.997.000	14.994.000
Lacquer	13.687.000	13.619.000	5.265.000	5.061.000
Totals	$143.397.000	$135.089.000	43.610.000	42.490.000

Total sales, January through May:—$625.616.000.

† Detail does not add to total because some respondents reported only total production which was not allocated either to trade or industrial sales products.
* Revised.

For Late Market Developments, See Page 4

Successful Coatings

This duck literally would be sunk if his coating were not waterproof. If it's water-proofness you are looking for in your coatings, as well as excellent resistance to acid and alkali, Neville Resins will fill the bill—adequately.

A smart duck we know has suggested the following formula for a highly successful exterior aluminum paint vehicle:

GALLONS	POUNDS	
	100	R-12 NEVILLE RESIN
20	155	ALKALI REFINED LINSEED OIL
20	157	CHINA WOOD OIL
11.5	83	2-50-W HI-FLASH SOLVENT
51.5	329	MINERAL SPIRITS
	1.3	6% COBALT NAPHTHENATE
	825.3	

NEVILLE

METHOD OF PREPARATION: Place both oils and 40 pounds R-12 Neville Resin in the kettle and heat to 545-550° F. and hold at this temperature for approximately 45 minutes. Check with remaining R-12 Neville Resin. Reduce. Finally add drier.

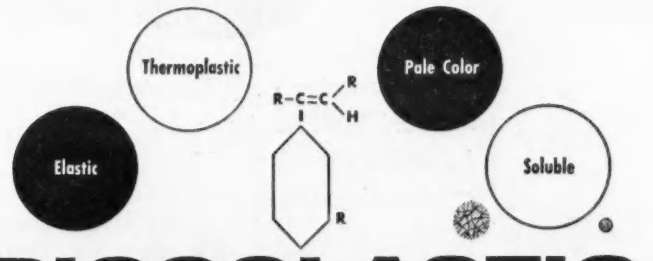
VEHICLE CONSTANTS: Solids 50%; Viscosity (Gardner) B-C; Acid Number (on solids) Less than 5

CALL ON US FOR SAMPLES (We think you will take to them like a duck to water.)

NEVILLE CHEMICAL CO.
PITTSBURGH 25, PA.

Plants at Neville Island, Pa., and Anaheim, Cal.

P-55



PICCOLASTIC RESINS

24 standard grades—polymers of styrene and its homologues

Piccolastic Resins are made in five series and twenty-four standard grades. They are polymers, in a wide range of average molecular weights, of styrene and its homologues.

They possess sufficient pale color so as to be suitable for the majority of uses. The entire line is soluble in aromatic hydrocarbons.

The Piccolastic Resins, with the exception of one type, are wholly hydrocarbon in structure, and therefore are alkali and acid resistant to a high degree, do not support mold or other fungus growth, and are not subject to enzyme reaction.

The Piccolastic Resins are permanently thermoplastic, and because of their heat stability at temperatures up to at least 175 C. make excellent stable, hot melt compounds.

Piccolastic Resins vary from viscous liquids through tacky solids, brittle solids to resins of hard horny toughness. Intermixtures of the various items permit an unlimited range of properties.

Pennsylvania Industrial Chemical Corp.
Clairton, Pennsylvania
Plants at:
Clairton, Pa.; West Elizabeth, Pa.; and Chester, Pa.
District Sales Offices
New York, Chicago, Phi'adelphia Pittsburgh, Detroit

PICCO

Pennsylvania Industrial Chemical Corporation
Clairton, Pennsylvania
Please send bulletin and samples of Piccolastic Resins for (application)
Name
Position
Company
Address

HIGH QUALITY
PLASTICIZERS

the ADIPATES

ADIPOL® BCA produces plastics of good general properties when used with POLYVINYL CHLORIDE and COPOLYMERS, NITROCELLULOSE, ETHYLCELLULOSE and ACRYLICS. In SYNTHETIC RUBBERS it produces good cured stock with excellent low temperature flexibility. Adipol BCA is used in safety glass because of its excellent ultra-violet light stability and low temperature flexibility.

ADIPOL® 2EH with VINYLS imparts excellent general properties and low temperature flexibility. 2EH when used in PLASTISOLS imparts good viscosity stability along with its usual good general properties.

ADIPOL® 10A with NITROCELLULOSE produces clear elastic films with good cold check properties — with ETHYLCELLULOSE excellent clear elastic films — with SYNTHETIC RUBBERS it produces cured stocks with low temperature flexibility and good general properties.

ADIPOL® ODY is excellent for use with NITROCELLULOSE, ETHYLCELLULOSE, CELLULOSE ACETOBUTYRATE, POLYSTYRENE, POLYVINYL CHLORIDE and COPOLYMERS and POLYVINYL ACETATE; imparting superior permanent flexibility, low temperature flexibility, heat stability and electrical properties. ADIPOL® ODY is a valuable aid with calendered films and sheetings because of its low volatility and excellent low temperature flexibility.

OHIO APEX fmc — PLASTICIZERS & CHEMICALS
OHIO-APEX DIVISION
FOOD MACHINERY AND CHEMICAL CORPORATION
NITRO, WEST VIRGINIA
CABLE: OHOPEX NITRO TELEPHONE: PL 53351

Mallinckrodt®
STEARATES
STANDARDIZED AND CUSTOM-MADE
ALUMINUM
CALCIUM
MAGNESIUM
SODIUM
ZINC
An outstanding line of Stearates—over 20 grades and types. Top quality in any quantity. Samples on request.
Mallinckrodt
MALLINCKRODT CHEMICAL WORKS
Mallinckrodt St., St. Louis 7, Mo. • 72 Gold St., New York 8, N. Y.
CHICAGO · CINCINNATI · CLEVELAND · LOS ANGELES · MONTREAL · PHILADELPHIA · SAN FRANCISCO
Manufacturers of Medicinal, Photographic, Analytical and Industrial Fine Chemicals

Quality Tested
for
low acid number • rapid cutting
more brilliant French varnish
full-bodied French varnish
quick-drying French varnish

65 Extra white refined bone dry bleached shellac

Guaranteed to meet U. S. Government Specifications
Available in: 250 lb. barrels • 100 lb. bags • 100 lb. kegs

The Mantrose Corporation
Importers • Bleachers • Manufacturers
136-146 FORTY-FIRST ST. • BROOKLYN 32, N. Y.

Agents and warehouse stocks in principal cities

Allied Basic Chemical Co., Montreal 24, Canada
Allied Basic Chemical Co., Toronto 12, Canada
J. A. Castro, Havana, Cuba
C. M. Durbin Company, Cincinnati, Ohio
Grant Chemical Co., Boston, Mass.
J. H. Hinz Company, Cleveland 13, Ohio
Harry Holland & Son, Inc., Chicago 6, Ill.
R. L. Kelley, Danbury, Conn.
J. C. Roger Chemical Co., Inc., Baltimore 23, Md.
H. C. Ross, Burbank, Cal.
E. M. Walls Company, San Francisco, Cal.

cresylic acid, prices for TCP have made no corresponding move upward.

Natural Resins

Copal, Dammar Gums—Prices for those grades moving in largest volume held steady throughout the week as the market encountered a good consumer interest and an untroubled supply situation. Material at the sources was being offered in ample amounts to take care of buying demand, it was reported. At the same time, prices for replacement resisted the tendency to spiral and remained on an even keel. Dealers in this country felt that the market would continue steady and moderately active during the coming weeks, because they saw no particular wish on consumers' part to restrict purchases to an unusual degree.

Shellac—The market in Calcutta was reported steady and strong by informed sources in this country. Prices for replacement were thus maintained evenly and without any prospect for being lowered. The present situation contrasted with dealers' expectations some time ago, when it was definitely believed that lower prices could be effected by July. Since then, however, holders in Calcutta have firmed their views, and have failed to continue reducing their expectations. Buying was said to be fairly active right at the present, although most consumers limited their purchases to immediate needs and preferred not to stock themselves heavily. Dealers awaited further developments in Calcutta, but without any definite expectations of an easing in attitude in the weeks just ahead.

Naval Stores

Rosin, Gum

(USDA, per 100 lbs.)

	Fri. July 8	Mon. July 11	Tues. July 12	Wed. July 13	Thur. July 14
Drums—					
B	$7.90	...	...	...	...
D	7.90	...	...	...	...
E	7.90	...	...	...	...
F	7.90	...	...	...	...
I	8.28	$8.25	...	...	...
K	...	8.25	...	$8.25§	$8.25
M	8.25	8.25	$8.25	...	8.25
N	8.29§	8.25	...	8.29§	8.32§
WG	8.30	8.30	8.34§	8.34§	8.38
WW	8.40	8.40	8.40	8.43§	...
Bags—					
K	8.15	8.15	...	8.15	8.15
M	...	...	...	...	8.15
N	...	...	...	8.20	8.30
WG	...	8.29§	8.35	...	8.35
WW	...	8.31§	8.65	8.30	8.40

Tankcars (for week ended July 8)—
K or better, $7.88; M, $7.79§

Sales, USDA

1,252* 874* 975* 1,275* 1,850*

New York
(per 100 lbs., c.l., Friday)
B through N, $9.20; WG, $9.25; WW, $9.35.

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	...	.549§	.544§	.544§	.548§
Sales	...	14,000¶	46,000¶	20,000¶	14,000¶

New York, Friday, per gal. 7 lbs., tankcars, l.c.l.....

*Drums equivalent. ¶Gallons. §Average price.

Miscellaneous Materials

Casein—Argentine material held its firm position on the market and was

WOOD FLOUR
WHITE PINE
ALL MESHES
Inquiries solicited
WILNER WOOD PRODUCTS CO.
NORWAY, MAINE

STANLEY DOGGETT, Inc.
ESTABLISHED 1878
MANUFACTURERS and IMPORTERS
DRY COLORS OF MERIT QUALITY PIGMENTS
75 VARICK STREET, NEW YORK

WATER GROUND MICA FOR PAINTS
"SILVERSHEEN SPECIAL" 325 MESH
RICHMOND MICA CORP.
NEWPORT NEWS, VA. 62 WORTH ST., NEW YORK 13, N. Y.
Canada: P. N. Soden & Co., Ltd., 2143 St. Patrick Street, Montreal 22, Canada

50,000 POUNDS VYHH
Available At Market Price
FINE CHEMICAL CO.
250 WEST 57th STREET
NEW YORK 19, N. Y.
PLaza 7-4428 Cable Address — FINECHEM

Cellulose Acetate
Cellulose Acetate Butyrate
Eastman CHEMICAL PRODUCTS, INC.
Subsidiary of Eastman Kodak Company
KINGSPORT, TENNESSEE

actually expected to advance, once several parcels now on the market were disposed of. Prices of Argentine material on a duty-paid, delivered New York, basis hovered between 23½ cents and 24 cents per pound. Nothing was available from France, nor was anything expected from that country during the season. Some European countries, in fact, are buying from Argentina. New Zealand prices ranged from 25 cents to 26 cents per pound, also on a duty-paid, delivered New York, basis. Buying was moderately active on the local market during the week.

Zinc Naphthenates, Stearates — Prices held steady without moving upward in the wake of zinc sulfate quotations. Producers of naphthenates and stearates felt that there would be no price advances at this time, in spite of the advanced costs of the related materials, chiefly because of the percentages contained in naphthenates and stearates. Buying was reported steady and up to producers' expectations right now.

ADM Expands Its Soybean Milling, Dehulling Facilities

Archer-Daniels-Midland Company, Minneapolis, Minn., has announced that a major plant expansion is underway at its Mankato, Minn., properties, involving a three-story addition to its soybean preparation building. Equipment to be installed includes special new machines for dehulling soybeans, and milling equipment for grinding soy flour to an extra fineness.

The first products of the new plant addition will be soybean oil meal for hog and poultry feeds, which the company has stated contains a higher percentage of protein than regular soybean oil meal. This product will be placed on the market shortly after October 1, the completion date for the plant expansion.

Pitts. Plate Appoints Three

Pittsburgh Plate Glass Company, Pittsburgh, Pa., has announced the appointment of Edward R. Frank as assistant general manager of the Forbes finishes division and the appointment of Frederick F. Rhue as manager of sales service for the division. At the same time, the company reported that it had named Robert H. Campe assistant manager of industrial glass sales.

Stein, Hall & Co. Sets Up Labs For Textile, Resin Research

Stein, Hall & Co., New York, has established a southern textile laboratory and a resin laboratory at its Charlotte, N.C., plant. John B. Wathey has been appointed chief chemist of the southern textile laboratory and David E. Truax has been named director of the Charlotte plant and laboratories.

The Southern Textile Laboratory will be responsible for development of new textile products, particularly for sizing and finishing operations and will offer general technical assistance to textile mills in the company's Charlotte and Atlanta, Ga., territories.

Prior to his new appointment, Mr. Wathey had been chief chemist of the company's New York textile laboratory, a post he held since 1951. He joined Stein, Hall in 1950 as a development chemist. Mr. Truax has been with Stein, Hall since 1936, when he joined the company's Providence, R. I., laboratory as a development chemist.

Hydrocarbon Waxes Sold By Strohmeyer & Arpe Co.

Synthetic hydrocarbon waxes made from crude contact paraffin wax resulting from the Fischer-Tropsch catalytic hydrogenation of carbon monoxide gases are being offered by Strohmeyer & Arpe Company, New York, under the trade name, "Roxite Hard Waxes."

These waxes are high molecular neutral paraffins, mostly of the straight-chain aliphatic type, the company reported. They may be oxidized, however, in a special process and converted into a fully acid type of wax containing a high percentage of high molecular fatty and waxy acids, it was noted. Uses suggested by the company are for solvent-based liquid wax polishes, paste polishes, carbon paper, candles, and lipsticks.

J. M. Huber Promotes Rives

Joseph F. Rives has been promoted to the post of assistant to A. Z. Hahn, vice-president of the carbon black division of J. W. Huber Corporation, New York. Mr. Rives was formerly packaging engineer with the company and is being replaced in this position by Donald Thompson.

INDUSTRIAL CHEMICALS

Phibro

PLASTICIZERS

DIOCTYL PHTHALATE
ADIPATES
TRICRESYL PHOSPHATE
DIMETHYL PHTHALATE
DIBUTYL PHTHALATE
DIETHYL PHTHALATE
SPECIALLY FORMULATED PLASTICIZERS

In Tank Car, Tank Wagon, Carload Drums and Less Carload Drums

Philipp Brothers Chemicals, Inc.
37 WALL ST., • NEW YORK 5, N. Y. • HAnover 2-4676
Cable Address: PHIBROCHEM NEW YORK
BOSTON 10, MASS. · PORTLAND, CONN.
PROVIDENCE 3, R. I. · PHILADELPHIA 6, PA. BALTIMORE 1, MD.

INDUSTRIAL DIVISION
SHEFFIELD
CHEMICAL COMPANY, INC., NORWICH, N. Y.
New York City Sales Office: 1267 Sixth Avenue, New York 19, N. Y.

casein
premium domestic—muriatic acid types
selected imported grades
shipment from stocks

A DIVISION OF NATIONAL DAIRY PRODUCTS CORPORATION

ARGO®

A new series of *Synthetic* Polysaccharides

Polyose

Adhesive and Gum-like Properties
Cold Water-Dispersible
Wide Fluidity Range
High Clarity
Non-gelling
Low in Cost

Suggested Uses—
as adhesive for gluing, remoistening, and mucilage formulations;
as extenders for more expensive water-soluble gums such as polyvinyl alcohol;
as replacements for gum arabic in pastes and for pigment suspension and binding applications;
as fluidifying agents for dextrins and starches.

Address Inquiries to Department D
Chemical Division
Corn Products Refining Company
17 BATTERY PLACE, NEW YORK 4, N.Y.

AEC Ready to Sell First Atomic Electric Energy

The Atomic Energy Commission has announced that the first atomic-electric energy to be sold by the government will be introduced into a public utility system in the near future. Steam from the prototype submarine reactor at West Milton, N. Y., will be channeled into a turbine generator to produce electrical energy which will be sold by the AEC to Niagara Mohawk Power Corporation. The 10,000 kilowatt turbine generator was installed and will be operated by the General Electric Company at no cost to the government.

The arrangement under which the power will be marketed by Niagara Mohawk is temporary, pending determination whether any or all three public power organizations within a 100-mile radius of West Milton, which have expressed interest in purchasing the power, can arrange for transmission to their systems. The power will be available on an interruptible basis, depending on the testing operations of the reactor as a submarine propulsion plant.

Chipman Makes Bales V.P.

Chipman Chemical Company, Bound Brook, N. J., has elected Irvin W. Bales a vice-president of the firm. Mr. Bales will continue as director of research and technical service, and also will remain in charge of new products development.

Continental-Diamond Elects Dr. Lux

Continental-Diamond Fibre Company, which on July 1 changed its name to Haveg Industries, Inc., has elected Dr. John H. Lux president and a director. Dr. Lux was formerly vice-president in charge of sales and development for Shea Chemical Corporation, Baltimore, Md. Haveg, which is located at Marshallton, Del., will continue to manufacture and fabricate chemical equipment, corrosion resistant pipes and plastic raw materials. Dr. Lux said that the company has expansion plans that may include the possible acquisition of a chemical company.

EL DORADO COCONUT OIL

FEATURE CONTROLLED CHEMICAL COMPOSITION
. . . so you get better and easier control during processing . . . plus a better, more uniform end product.

SPECIFY EL DORADO FOR
• PURITY • SERVICE
• UNIFORMITY

El Dorado has specialized in coconut oil products for more than half a century. That's one big reason why you can depend on the performance of El Dorado products in your formulations.

FATTY ACIDS
CAPRYLIC ELDHYCO* CAPRIC
LAURIC COCONUT MYRISTIC
PALMITIC

METHYL ESTERS
CAPRYLATE ELDO 18* CAPRATE
LAURATE COCONATE MYRISTATE
CAPROATE PALMITATE
*T.M. Reg.

For samples and specifications, write Dept. ()

Rely on EL DORADO OIL WORKS
Main office: P. O. Box 599 Oakland 4, Calif.
Plants: Bayonne, N. J. Oakland, Calif.

Plymouth PLYMOUTH

STEARATES
ALUMINUM — ZINC — CALCIUM — MAGNESIUM
ESTABLISHED QUALITIES MANUFACTURED FOR 50 YRS.
M. W. PARSONS-PLYMOUTH, INC.
59 BEEKMAN STREET, NEW YORK 38, N. Y.
DISTRIBUTION POINTS AND AGENTS IN ALL PRINCIPAL CITIES

Export Codes: ABC 5th, BENTLEY'S JUNIOR PEERLESS
Cable Address: BRODE
Phones: L. D. 271 — Local 38-2544
Teletype No. ME-260
THE BRODÉ CORPORATION
P. O. Box 700 1012 Falls Building
MEMPHIS, TENNESSEE

For Domestic and Export
COTTONSEED MEAL AND CAKE
PEANUT MEAL-SOYABEAN MEAL

whether it's for beach balloons

...or weatherproof winter jackets

...there is an

EMERY PLASTOLEIN® PLASTICIZER
for your every need!

IF YOU NEED LOW TEMPERATURE PERFORMANCE...
Plastolein 9058 DOZ and 9057 DIOZ are the most versatile low temperature plasticizers available

IF YOU NEED EXTREME PERMANENCE
Plastolein 9720 imparts extreme durability and weatherability to plastic materials.

IF YOU NEED LOW-COST...
Plastolein 9055 DGP is a low cost, low-temperature, secondary plasticizer which provides high efficiency and good all-around performance.

Investigate the advantages of the Emery Plastolein Plasticizer that best fit your purposes. Write Dept. 0 today for new descriptive booklet or evaluation samples.

Emery
Fatty Acids & Derivatives
Plastolein Plasticizers
Twitchell Oils, Emulsifiers
Emery Industries, Inc., Carew Tower, Cincinnati 2, Ohio

New York • Philadelphia • Lowell, Mass. • Chicago • San Francisco • Cleveland
Warehouse stocks also in St. Louis, Buffalo, Baltimore and Los Angeles.
EXPORT: 2205 Carew Tower, Cincinnati 2, Ohio

SUN BLEACHED
Beehive Brand BEESWAX
• FINEST QUALITY
• GUARANTEED PURE
WILL & BAUMER CANDLE CO., INC.
Dept. E-7 Established 1855 Syracuse, N. Y.
Spermaceti Red Oil Glycerine
Ceresine Stearic Acid
WARRANTED PURE BEES WAX

CRODA INC. *Chemical Manufacturers*
SUPERFINE COSMETIC LANOLIN USP
'HARTOLAN' WOOL WAX ALCOHOLS BP
POLAWAX SELF-EMULSIFYING WAX
'FLUILAN' LIQUID LANOLIN
'PROTANAL' Sodium ALGINATE
'CRODACOL' CETYL, STEARYL, OLEYL ALCOHOLS
CRODA INCORPORATED 51 MADISON AVENUE, NEW YORK 10 N.Y. U.S.A.
Tel MUrray Hill 3-3090

METHYL ACETONE
100,000 Gallons Surplus Stock Available below market
AMERICAN RESINOUS CHEMICALS CORPORATION, Peabody, Massachusetts

SYNPRO STEARATES
Aluminum - Zinc - Calcium - Magnesium - Barium - Cadmium
A new 26 page Illustrated Booklet describing new plant and including complete technical data now available.
Write for free copy to
SYNTHETIC PRODUCTS COMPANY
1636 Wayside Road *Since 1917* Cleveland 12, Ohio

Oils, Fats and Waxes

Feature of the oils and fats market last week was the continued strength of tallow and greases. Improved demand for export and short covering caused prices to advance fractionally. Trading was fairly active, with offerings scarce for nearby, which were held at an additional advance. This resulted in higher prices for grease and tallow oils. Animal acids also reflected the increased cost of tallow and oleic, stearic and tallow acids were lifted ½ cent per pound. Domestic demand for tallow was slow, with soapers out of the market. Crude coconut oil was easy and lower, with copra.

Cheaper new crop oil, weakened edible oils. Cottonseed, corn and soybean oils declined sharply. Trading was light and spotty, chiefly for nearby delivery. Crude peanut oil also was easier but nominal due to the scarcity of supplies. The lower cost of soybean oil stiffened meal and quotations were lifted $2 per ton. Cottonseed meal also was up $2 per ton due to cheaper crude oil.

Linseed oil was quiet and unchanged, but firm bids it was reported could have shaded quotations slightly for tankcar business for delivery during the balance of the year. Oiticica oil offerings continued light and prices were closely held. Scarcity of tung oil in the local market further strengthened the market and quotations were raised fractionally. Consuming inquiry was active for prompt and forward requirements. Brazilian castor oil continued strong, reflecting the higher cost of replacements. Prices were raised fractionally for prompt and later delivery.

Vegetable Oils

Castor—This market was firmer, reflecting the higher cost of foreign oil. Domestic grades were unchanged, but steadier. No. 1, Brazilian oil was advanced to 13¾c. per pound, tankcars New York, prompt delivery, following sales at ¼c. less.

Coconut—Crude was easy and fractionally lower with copra. Trading was slow. Tankcars, were quoted at 11⅝c. per pound, f.o.b. Pacific coast, July shipment; 11½c., August, and 12¾c., New York, prompt.

Corn—Market was sharply lower with competing oils. Crude sold down to 14c. per pound, tankcars, f.o.b. mills July and 13¾c., August. Refined declined to 17½c. per pound, tankcars, New York, prompt delivery.

Cottonseed—Bleachable cottonseed oil futures market was irregular and closed slightly lower for prompt delivery. Trading was mixed and moderate. Liquidation in July was fairly liberal and was absorbed by short covering and trade interests on a scale down. July was transferred to September at 70 points difference. Trade buyers purchased July and sold September, with speculators doing the reverse. Tenders against July contracts totaled 26 to date. Demand for cash oil was quiet. Refined salad oil dropped sharply with crude and quoted at 17⅛c. per pound, tankcars.

Crude was weak and lower. Trading was reported light at the lower levels. Sales were reported at 13¼c. per pound tankcars in the southeast and 13c. was bid in the Valley. In Texas, market was nominal at 12⅝c. to 12⅞c., as to location.

CCC offered 15,500 tons of once refined cottonseed oil for export and 4,320,000 pounds of crude for domestic or export delivery. Contracts for processing and packaging 7,219,900 pounds of hydrogenated oil were awarded by CCC, also 2,630,070 pounds of deodorized and winterized salad oil.

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended July 15 follow:—

	Sales	High	Low	Close
		Cents per pound		
July	164	15.53	15.32	Expired
September	97	14.80	14.65	14.82@14.83
October	12	14.35	14.30	14.39@14.45
December	40	14.25	14.13	14.27@14.30
January	2	14.32	14.24	14.32S
March	46	14.25	14.10	14.28S
May	39	14.25	14.06	14.25S

Total sales, 400 contracts.

Memphis.—Crude cottonseed oil was quiet and nominal at 13c. per pound, tankcars, f.o.b. mills. Cottonseed meal was quoted at $62 per ton, sacked, Memphis; hulls, $12 bulk and $18.50 per ton, sacked. Demand was fair.

Linseed—Deliveries against contracts continued in steady demand, the volume withdrawn reported much larger than at this time last year. New business was still slow. Raw oil was quotably unchanged, but it was intimated that quotations could have been shaded at least 2 points per pound for tankcars for delivery during the last half of this year. Raw oil was quoted at 13.3c. per pound, tankcars, f.o.b. Minneapolis July and 13.5c. warehouse; 13c., August; 12.6c. September; 12.4c. October-December and 12.5c., January-March, same basis.

Flaxseed—The flaxseed crop as of July 1 was forecast at 43,396,000 bushels by the Department of Agriculture, compared with the final 1954 production of 41,534,000 bushels and 10-year average of 35,898,000 bushels. Yield per acre was placed at 8.6 bushels against 7.3 last year and 10-year average of 9.2 bushels. Acreage planted to flaxseed was indicated at 5,049,000 acres, compared with 5,663,000 harvested last year and 10-year average of 3,873,000 acres.

Minneapolis.—Prices were steady the past week. Old-crop seed held at $3.30 a bushel for July arrival. New-crop was priced at $3.25 for arrival by Aug. 15. Last-half August and Sept. 15 arrival seed at $3.20 a bushel, Minneapolis basis. Flax to-arrive at Duluth was quoted at $3.35. Spot business was thin but to-arrive bookings improved. Spot cash purchases totaled only four cars and 3,000 bushels in small lots. Reports from the Upper Midwest indicated the flaxseed crop is in "good to excellent conditions."

Receipts and shipments of flaxseed, in bushels, were as follows:—

	Receipts		Shipments	
	1954-55	1953-54	1954-55	1953-54
Past week.	665,000	262,500	57,750	112,000
Since Sept. 1	25,561,500	23,895,400	5,281,750	5,079,800

Oiticica—This market was unchanged, and steady. Tankcars ranged from 13¼c. to 13½c. per pound, New York, prompt delivery, according to seller. Offerings were light. Drums were quoted at 14½c. to 15c. per pound, as to quantity.

Palm Kernel—Higher cost of replacements raised quotations ¼c. per pound. Tankcars were quoted at 12¼c. per pound, New York, prompt delivery.

Peanut—This market was inactive and merely nominal. Crude was quoted nominally at 17¾c. per pound, tankcars, southeast. Refined also was lower at 21¼c. per pound, tankcars, New York, prompt delivery.

Soybean—Closeness of new crop oil and limited buying interest further weakened this market. Crude sold down to 11⅜c. per pound, tankcars, Decatur, July shipment; and first half August; 11¼c., scattered August; 11¼c. first half September, and 11⅛c. second half and 10½c. bid,, Ocober-December. Refined salad was lower at 14⅜c., per pound, tankcars, New York, nearby delivery.

Acreage planted to soybeans was estimated July 1 at 19,860,000 acres by the Department of Agriculture, compared with 18,753,000 last year and 10-year average of 13,740,000 acres.

Sales and prices of crude soybean oil futures on the N. Y. Produce Exhange in tankcars (60,000 pounds) for the week ended July 15 follow:—

	Sales	High	Low	Close
		Cents per pound		
July	21	11.58	11.35	11.44S
September	2	10.86	10.86	10.94@11.03
January	12	10.43	10.40	10.43S
March	3	10.41	10.28	10.41S
May	4	10.35	10.30	10.39@10.40

Total sales, 42 contracts.

Tung—Scarcity of oil here and active consuming interest further strengthened this market. Offers were scarce and higher. Tankcars were nominal at 25¼c. per pound New York, prompt and later delivery. Domestic oil was nominal at 1c. less f.o.b. mills.

Government sales last week amounted

For Late Market Developments, See Page 4

Price Trends

Advanced

Acid, oleic, ½c. per lb.
Stearic, ½c. per lb.
Tallow, fatty, ½c. per lb.
Cottonseed meal, $2 per ton.
Greases, ⅛c. to ¼c. per lb.
Oil, grease, ¼c. to ¾c. per lb.
Palm kernel, ¼c. per lb.
Tung, ¼c. to ¾c. per lb.
Soybean meal, $2 per ton.
Tallow, ⅛c. per lb.

Reduced

Copra, $5 per ton.
Lard, cash, 1 5c. per lb.
Oil, coconut, crude, ¼c. per lb.
Corn, crude, ¾c. per lb.
refd., ¾c. per lb.
Cottonseed, crude, ½c. per lb.
refd., ½c. per lb.
Peanut, crude, ¼c. per lb.
refd., ¼c. per lb.
Soybean, crude, ¼c. per lb.
refd., ¼c. per lb.

Comparative Price Indexes

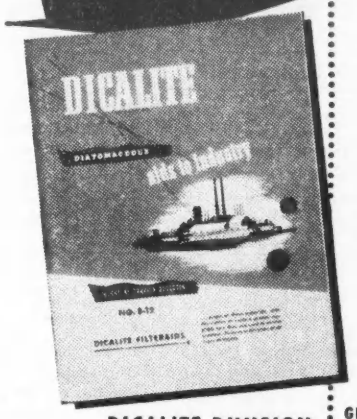
(100—1949 average)

Last week	Prev. week	Last month	July 16, 1954
104.99	103.64	103.88	108.84

(For Current Prices see Page 9)

With Filteraids and Filtration Facts...

Dependable Dicalite®



provides the answers to many processing problems

Between the covers of this BULLETIN B-12 is a mine of valuable information on the effective uses of diatomaceous filteraids in processing essential oils, pharmaceuticals and antibiotics. Write for your free copy now!

DICALITE DIVISION

GREAT LAKES CARBON CORPORATION, DEPT. OPD, 612 SO. FLOWER ST., LOS ANGELES 17, CALIF.

WAXES...WAXES...WAXES...

ROXITE FISCHER—TROPSCH PROCESS

QUALITY and SERVICE
Since 1882

STROHMEYER & ARPE CO.
139 Franklin Street New York 13, N.Y.
*Reg. Tel. WA 5-2300

CINCINNATI
Theodore C. Kiesel
P.O. Box 93
Cincinnati 13 Ohio

NEW ENGLAND
Philip A. Houghton, Inc.
30 Huntington Ave., Boston 16, Mass.

CHICAGO
Clarence Morgan, Inc.
325 North Wells St. Chicago 10, Ill.

PHILADELPHIA
Harry W. Gaffney
1400 So. Penn Sq.
Philadelphia 2, Pennsylvania

GROCO 55
Triple Pressed
DISTILLED
STEARIC ACID

SPECIFICATIONS

Titre	54.5°— 55.2°C.
Titre	130.1°— 131.4°F.
Color 5¼" Lovibond Red	0.5 max.
Color 5¼" Lovibond Yellow	1.5 max
Unsaponifiable	0.05% max.
Saponification Value	208 — 212
Acid Value	207 — 211
Iodine Value (WIJS)	4.0 max.

Send for samples and free booklet
"Fatty Acids in Modern Industry"

Manufacturers Since 1837

a. gross & COMPANY

295 MADISON AVE., NEW YORK 17, N. Y.
Factory: Newark, N. J.
Distributors in principal cities

Consulting Chemists and Engineers

ASSOCIATION OF CONSULTING CHEMISTS AND CHEMICAL ENGINEERS, INC.
50 East 41st Street, Room 82 — New York 17, N. Y. LExington 2-1138
A Clearing House — *For Consultants*
Reg U S Pat. Office
WHEN YOU NEED A CONSULTANT ADDRESS THE ASSOCIATION
NO CHARGE FOR THIS SERVICE
Members Located From Coast To Coast Render Services In Any Given Field
Cable: CHEMANENGS, New York

R. S. ARIES & ASSOCIATES
Consultants to the Chemical Industries
New, Profitable Products
Process Analysis—Market Research
Technical & Economic Surveys
Sale and Licensing of Efficient Processes
Complete Chemical and Drug Plants
270 Park Avenue New York 17, N. Y.
ELdorado 5-1430

BJORKSTEN RESEARCH LABORATORIES
Sponsored Industrial Research
MADISON, WIS. ..... 323 W. Gorham St
CHICAGO, ILL. ..... 1525 E. 53 St.
NEW YORK, N. Y. ..... 50 E. 41st Street
HOUSTON, TEXAS ..... 2611 Sunset Boulevard
WASHINGTON, D. C. ..... 412 Fifth St., N.W.

BODE-LOWRY AND ASSOCIATES
CHEMICAL MARKET RESEARCH
AND SALES DEVELOPMENT
80 E. JACKSON BLVD., CHICAGO

RESEARCH AND PRODUCT DEVELOPMENT
Oils, coatings, detergents, Plastics
Organic and drug analyses.
Testing work.
COLBURN LABORATORIES, INC.
Research Chemists
732 S. Federal St Chicago 5, Ill.

SPECTROGRAPHIC ANALYSES
Qualitative and Quantitative Since 1936
Micro and Semimicro analyses of metallics; convention and metallurgical analyses, metallography, metal failures investigated, heat treating consultants photomicrographs, Jominy Hardenability, physical tests.
W. B. COLEMAN & CO.
9th St. & Rising Sun Ave. Philadelphia 40, Pa.

DI CYAN & BROWN
Consulting Chemists
12 East 41st Street, New York 17, N. Y.
MUrray Hill 5-0811
CONSULTANTS IN DRUGS & COSMETICS
Scientific & Regulatory Problems
New Products

Fitelson Laboratories, Inc.
Consulting and Analytical Chemists
J. Fitelson, Ph.D., Director
Foods, Spices, Oils, Drugs, Cosmetics
Specialist on labeling, sanitation and chemical problems connected with F D A procedures
254 W 31st Street, New York 1, N. Y.
OX 5-0765

FOOD RESEARCH LABORATORIES, INC
FOUNDED 1922
Bernard L. Oser, Ph.D. Dir
RESEARCH—ANALYSES —CONSULTATION
Biological, Nutritional, Toxicological Studies to the Food, Drug and Allied Industries
48-14 33rd St., Long Island City 1, N. Y.
STillwell 4-4814

EMILE C. FREELAND
Consultant to LATIN AMERICAN AND TROPICAL INDUSTRIES
Raw and Refined Cane Sugar
Cane Sugar By-Products
Vegetable Oils and Lard, Oleomargarine
Agricultural Products and Methods
Economic Surveys, Development, Marketing
Factory Design, Supervision, Modernization
SE HABLA ESPANOL
1158 Fifth Ave., New York 29, N. Y.
TRafalgar 6-1109

HUDSON LABORATORIES, Inc.
Consulting Chemists and Bacteriologists
Albert F. Guiteras, Ph.D., Director
Testing Analysis Formulation Research
BACTERIOLOGY, CHEMISTRY, TOXICOLOGY
Foods Drugs Cosmetics
Disinfectants Antiseptics Sanitizers
117 W. 13th Street, New York 11, N. Y.
ALgonquin 5-6290

KENDALL INFRARED LABORATORY
David N. Kendall, Ph.D., Director
Qualitative and Quantitative Analyses on
All Organics and Most Inorganics
Consultation—Research—Personnel Training
1030 Sherman Ave. Plainfield, N. J.
PLainfield 4-5205

LAWALL & HARRISSON
CHEMICAL • BACTERIOLOGICAL
PHARMACOLOGICAL
Analyses • Consultation
Research
FOOD AND PHARMACEUTICAL
PROCESS ENGINEERING
Div O. 1921 Walnut Street
Philadelphia 3, Pa.

LEBERCO LABORATORIES
Hormone Assays
Biological Assays
Pharmaceutical and Cosmetic Research
Sterility Tests • Toxicity Studies
Send for information concerning our services
125 Hawthorne St., Roselle Park, N. J.

ERNEST C. MOFFETT
CONSULTING CHEMIST
Offers Unique Experience in the Organization and Management of Industrial and Research Laboratories and in the Evaluation of New Projects.
582 Barron Avenue, Woodbridge N. J.
WOodbridge 8-2170

MOLNAR LABORATORIES | Consulting Testing and Research
• Organic Synthesis
• Clinical Studies
• Product Development & Control
• Toxicity and Dermatitis Tests
• Disinfectant Testing
211 E. 19th St., New York 3, GR. 5-1030
Cable Address: Molchem

THE ORTHMANN LABORATORIES, INC.
Consulting Analytical & Research Chemists
For the Leather & Allied Trades
Aug. C. Orthmann, President
922 NORTH FOURTH STREET
Milwaukee 3, Wisconsin

AARON PERMUT
CONSULTING CHEMIST
ORGANIC PIGMENTS
PIGMENT DISPERSIONS
FLUSHED COLORS
• Plant Design • Applications
• Formulation • Market Analysis
• Development • Domestic & Foreign
263 Washington Place
HASBROUCK HEIGHTS, N. J., HA 8-1456

EST. 1835
W. S. PURDY COMPANY
Analytical & Consulting Chemists
TESTING OF PETROLEUM OILS
WAXES AND RELATED PRODUCTS
Bayway Terminal Bldg.
c/o Charles Martin & Co.
Elizabeth, N. J.
Phone ELizabeth 3-3894

REGO LABORATORIES
CONSULTING CHEMISTS & CHEMICAL ENGINEERS
Over half century of collective experience
W. W. LEWERS, Ph.D., Dir.
Detergents, Chemical Specialties, Waxes, Emulsions, Polishes, Paints, Synthetics, Cosmetics, Market Surveys, Plant Design.
3228 Greenpoint Ave. Telephone:
Long Island City, N. Y. EX 2-6094

RESIN RESEARCH LABORATORIES, INC.
406 Adams Street, Newark 5, N. J.
Market 2-5251
RESEARCH, DEVELOPMENT
TESTING, EVALUATION
Resin and Polymer Synthesis
Coatings—Paints, Varnishes, Lacquer, Waxes, Mastics
Moulding, Laminating, Casting, Extrusions, Calendering, Adhesives
Corrosion, Insulation
Testings, Evaluation, Application
Market Research

THE SCHEPP LABORATORIES
CHEMICAL CONSULTING
RESEARCH AND DEVELOPMENT
Industrial—Agricultural—Biochemical
Wm. J. Schepp, F.A.I.C., Director
Member—A. C. C. & C. E.
21-23 Summit Ave. Fairlawn 6-1212
East Paterson, N. J.

SEIL, PUTT & RUSBY, INC.
Established 1921
Earl B. Putt, President
Stephen S. Voris, Ph.D., Chief Chemist
Experts in analyses of drugs, essential oils, spices, rotenone and pyrethrum and other organic insecticides, flavors alcoholic liquors, toilet preparations, proprietaries and special formulae.
16 E. 34th St., New York 16, N. Y.
Phone MUrray Hill 3-6368

LOUIS L. SHAPIRO
CHEMICAL CONSULTANT
72 Orange Street, Brooklyn 1, N. Y.
TRiangle 5-7715
SPECIALIST—Glycol Esters, Fats, Oils, Stearic Acid, Fatty Acids Glycerine, Waxes, Emulsifiers, Protein, Fertilizers, Tallow Rendering, Packing House By Products, Soaps, Cosmetics, Adhesives, Distillation, Dowtherm, Processes, Testing Research.

IRVING SKEIST, Ph. D
Registered Patent Agent
PLASTICS — POLYMERS
* Research
* Development
* Marketing
14 Edgar St. Summit, N. J.
Summit 6-0245

RESEARCH LABORATORIES
FOSTER D. SNELL, INC.
29 West 15th Street
New York 11, N. Y.
WA 4-8800
TESTING and FORMULATION of WAXES, PAINTS, VARNISHES
COMPLETE ANALYTICAL SERVICES
DRUGS, FATS, OILS
INSECTICIDES
CHEMICAL SPECIALTIES DEVELOPMENT
BACTERIOLOGY TOXICOLOGY
VITAMIN ASSAY
RESEARCH

J. L. K. SNYDER, Ph.D.
Specializing in Management Problems, Product Development, Distribution, and Sales Promotion in the Chemical Pharmaceutical and Nutrition Fields.
Suite 2401, 14 Wall Street
New York 5, N. Y.
Telephone: REctor 2-2680

THE
BIGGEST MARKET
for
CONSULTATION SERVICES
is among the readers of
OIL, PAINT AND DRUG REPORTER
Tell them about yours

MONTCLAIR 3-2398
DONALD F. STARR, Ph.D.
CONSULTING CHEMIST
256 NORTH MOUNTAIN AVENUE
UPPER MONTCLAIR, N. J.
Insecticides Fish Control
Aerosols - Rodenticides Agricultural Chemicals

STILLWELL & GLADDING, INC.
130 Cedar Street, New York 6, N. Y.
Analysis Inspection Sampling
Chemicals, drugs, fats, oils, fertilizer, insecticides, glycerine, soaps, solvents, waxes, etc.
For Over 80 Years

TECHNICAL ENTERPRISES, INC.
CHEMISTS ENGINEERS
CONSULTANTS
Process Development and Process Engineering
Complete Chemical and Drug Plants
31 South St. New York 4, N. Y.
WHitehall 3-1544

UNITED STATES TESTING COMPANY, INC.
1415 Park Avenue, Hoboken, N. J.
Testing — *Research*
Chemistry Minerals
Engineering Microscopy
Electronics Product
Psychometrics Certification
Textiles Engineering
Foods Inspection
Leather Product Development
BRANCH LABORATORIES
New York — Boston — Providence
Philadelphia — Chicago — Denver
Dallas Los Angeles — Memphis
IN CANADA: W. J. Westaway Co., Ltd.
Hamilton Toronto Montreal Winnipeg

EMERSON VENABLE*
AND ASSOCIATES
Consulting Chemists & Engineers
Pa. Registry No. 12606
PHYSICS
CHEMISTRY
ENGINEERING
TOXICOLOGY
PUBLIC HEALTH
METALS and ORES
CONTRACT RESEARCH
PROCESS and PRODUCT DEVELOPMENT
*Member—A.C.C. & C.E.
HI-land 1-8045
6111 Fifth Avenue Pittsburgh 32, Pa.

WELLS LABORATORIES, INC.
28 Concourse East, Journal Square
Jersey City 6, New Jersey
CONSULTANTS - RESEARCH - TESTING
MICROBIOLOGICAL. Industrial, Food, Medical, Public Health. Biological deterioration investigations and preservation specialists.
BIOCHEMISTRY, ANALYTICAL AND ORGANIC CHEMISTRY. Toxicity, pathology, physiology. Human and animal testing facilities. Operate Test Beauty Shop.

ROGER WILLIAMS
Technical & Economic Services, Inc.
• ENGINEERING ECONOMICS
• MARKET RESEARCH
• PRODUCT EVALUATION
Write for "Profit Evolution"
148 East 38th Street, New York City 16
MUrray Hill 5-5257

LABORATORY SERVICES
Vitamin and amino acid assays • Proximate analyses and mineral determinations • Biological assays of Vitamins A, D_2, D_3, E and K • Chick feeding tests • Antibiotic assays • Insecticide, fungicide, and bactericide screening • Pharmacology and Enzyme studies.
Project research and consultation
WISCONSIN ALUMNI RESEARCH FOUNDATION
P.O. Box 2059-Ye Madison 1, Wis.

to 13½ tankcars as follows:—420,000 pounds at 23.55c. per pound, Avondale, La.; 180,000 at 25c., Chicago Heights; 60,000 at 24c., Brooker, Fla., and 145,000 at 24.76c. to 25.13c., Carnegie, Pa.

Miscellaneous

Castor Beans—Offers for shipment were reported scarce. Market was merely nominal at $110 per ton, c. and f.

Imports of castor beans and castor oil at New York and Philadelphia last week were as follows:—

	Pounds	
Last week	2,012,100	1,926,000
Previous week	494,700	3,890,000
Corresponding week, 1954	880,000	1,182,000
Total this year	54,584,915	50,676,000
Corresponding period, 1954	58,284,000	19,8?2,000

Copra—Market was easier and fractionally lower. Prompt shipment was quoted at $160 per ton, c.i.f. Pacific coast.

Fats and Greases

Greases—Good export demand strengthened this market and with offerings scarce the market advanced ⅛c. to ¼c. per pound as to grade. Yellow grease was strong, with trading reported up to 7¼c., tankcars, delivered. Choice white grease all nog was quoted at 8½c. and not all hog, 8c. Brown was nominal at 5⅝c. and house, 6⅜c., same basis.

Lard—Trading was reported slow. Market was steady. Cash lard was quoted at 11¾c. per pound, drums, Chicago.

Oleo Oil—Business was limited to actual needs. Extra was firmer, ranging from 15c. to 15¼c. per pound, drums as to seller. Oleo stearine was unchanged at 11c. to 11¼c. per pound, same basis.

Tallow — Active export interest combined with short covering for nearby delivery further stiffened this market. Prices were lifted at least ⅛c. per pound. Bleachable fancy was sold at 7¾c. per pound, tankcars, delivered, with sellers holding at ⅛c. to ¼c. more for nearby delivery. Extra was quoted at 7½c.; special, 7¼c.; No. 1, 7c. and edible, 9¾c., same basis. Guaranteed fancy was lifted to 9c., drums, f.a.s.

Fatty Acids

Higher cost of tallow resulted in an advance of ½c. per pound for oleic, tallow and stearic acids. Consuming demand was quite active for these materials. Vegetable fatty acids were quotably unchanged, with consumers taking good sized lots for prompt delivery.

Cake and Meal

Cottonseed Meal — Market continued quiet. Supplies are ample to meet the relatively slow demand. There has been a limited amount of new crop trading but most buyers' ideas are well below mills' prices. Forty-one percent was offered at $62 per ton sacked Memphis and Alabama; $62 to $63 Georgia; $63 South Carolina for scattered July shipment. New crop was offered for August forward delivery.

Linseed Meal—Moderate sales reported for prompt delivery. Prices unchanged.

Minneapolis.—Linseed meal prices held steady as activity was livelier than in recent weeks. Some export trade in old process meal was reported. Extracted meal, 36 percent protein, was quoted at $56 to $56.50 a ton, bulk, carlots, f.o.b., Minneapolis, but trades were reported at $55.50 in instances. Expeller meal was priced around $60 a ton, bulk, Minneapolis.

Shipments of linseed meal, in pounds, were as follows:—

	1954-55	1953-54
Past week	9,480,000	13,140,000
Since Sept. 1	587,280,000	584,110,000

Soybean Meal—Demand continued fairly good; Evidently the market has been discounted before the government crop report was issued last week. Nearby position is relatively tight and prices advanced. There was little interest in deferred positions. Forty-four percent, unrestricted billing, was offered at $54 per ton, bulk, Decatur, July; $53 August shipment. There have been some new crop offerings for August-September at $50 basis Decatur.

Waxes

Beeswax—Trading was reported restricted to fill-in needs. Market was firm, with the high cost of crude replacements. Refined grades were maintained at former levels.

Carnauba—Dealers showed more interest in replacements, while consumers limited business to small lots for actual needs. The Brazilian market remained strong, especially for Parnahyba No. 1 yellow. Offers of this grade were reported unavailable. Other crude and refined grades were unchanged in the local market.

Japan—Stocks on spot were nil and market merely nominal. Arrivals within the next two weeks were quoted at 45c. per pound, exdock. Future shipments were strong and advanced to 43c.

USED EQUIPMENT WITH "NEW MACHINERY PERFORMANCE"

1—S. & S. Model HG84 Automatic Powder Filler.
1—Blaw-Knox 110 Gal. Jack. Ag. Autoclave 2000 psi.
1—Horiz. Jack. Autoclave 30" x 48" x 84" deep.
1—Keeler 350 H.P. Type CP Boiler 160± W.P.
1—Davis Inconel Heat Exch. 195 Sq. Ft.
8—Surface Condensers and Receivers, 100 to 175 Sq. Ft.
5—Unused Pfaudler 100 Gallon Glass Lined Vacuum Receivers.
1—Carrier Atmos. & Truck Dryer.
3—Devine Double Dr. Vac. Shelf Dryers 17 & 20 Shelf 59" x 78".
1—Allbright-Nell 4' x 9' Double Drum Dryer.
2—Haines 1500± Vertical Powder Mixers.
2—Fitzpatrick Model D Comminuters, S.S.
8—C.I. Filter Presses, 12" to 30".
2—Sweetland Filters, ±10 & ±12.
3—Sparkler Stainless Filters 8-6.
1—Standard Knapp 429 Automatic Case Sealer and Compression Unit.
1—Ceco Carton Sealer, high & low plows.
1—Glasscote 750 Gal. Jack. Glass Lined Kettle 75± W.P.—Perfect. Coded.
2—Pfaudler Reactors, 100 & 500 Gal. G.L.
4—Eppenbach & Premier Colloid Mills, S.S. 1 to 50 gph.
5—Eureka ±3 Jar Mills 14 Gal.
5—W. & P. Mixers—20 Gal., 100 Gal., 200 Gal., Double Arm.
3—Rotex Screens 20" x 48" to 40" x 120".
1—Stainless Steel Tank 2100 Gal., w/coil.
2—Vert. Type 316 S.S. 4000 Gal. Tanks w coils.
1—Transwrap Model B Automatic Fin-Seal.

Send for Bulletin A-34 with complete listings.

We buy your surplus.

The Machinery and Equipment Corp.

533 West Broadway, New York 12, N. Y.
GRamercy 5-6680.
Harry Pearlman, Pres. Bill Wolf, Vice-Pres.

STEIN EQUIP'T OFFERS

DRYERS AND KILNS

Stokes 2'x6' Rotary Vac. Dryer.
Devine ±12 Vac. Shelf Dryer, 40"x42".
2—Allbr. Nell 4x8 Atmos Drum Dryers.
1—Buffalo Vac. Drum Dryer. 24"x20"

CENTRIFUGALS AND CENTRIFUGES

4—Tolhurst 40" Suspended Type.
8—Centrifugals, 12", 20", 26", 30", 40" & 48" Steel, Copper, Stainless & Rubber.
6—Sharples No. 5A Stainless & ±6.
2—De Laval Multi Clarifiers 300 & 301.

FILTERS

±2 Sweetland Filter 12 Stainless covered leaves
1—Vallez Filter ±49 with 41 Stainless covered 44½" dia. leaves.
Gen. Amer. 2'x1' Rotary Vac. Filter.
Sperry and Shriver 6" to 36" iron & wood.
Sweetland & Oliver Filters.

KETTLES AND TANKS

Pfaudler 500 gal. Glass Lined Jack Reactor.
Pfaudler 250 gal. Glass Lined Jack. Kettle.
Dopp 350 gal. Agit. Jack CI Vac Kettle.
2—Impreg. Units 30" & 36" dia. complete.
500 & 1,000 gal. closed Jack. Steel Kettles.
2300 gal. vert. agit. Jack. Steel Kettle.
1—250 gal. Lead lined Kettle.
Stainless, alum., copper. Glass lined, lead lined and steel kettles and tanks.

PULVERIZERS AND MILLS

2—Mikro Pulverizers ±2TH & 4TH.
Abbe 37"x30" chrome-mang. Ball Mill.
Patterson Pebble Mills, 6'x8', 6'x5', 30"x42".
Abbe 30"x30" & 30"x36". Also Jar Mills.
±1 Raymond Autom. Pulverizer, 20 HP.
1—±00 Raymond Mill, 30 HP complete.
2—±0000 Raymond Mills.
Sturtevant ±0, 18" hinged Hammer Mill.
Schutz-O'Neill ±1 & 20" Pulverizers.
Williams ±3 & 2XX Hammer Mills.
Ball & Jewell Rotary Cutters Lab & up.
Jeffrey 18"x18" single Roll Crusher.
Buchanan 5"x12" Jaw Crusher.
2—Robinson 18" & 22" BB Attrition Mills.
1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills, 9" x32", 12"x30", 16"x40".
1—Monarch 9"x24" Steel Roller Mill, 3 pr. high. Also 7½x20, 4 Roll.
Houchin 18"x30" 4 Roll Granite Stone Mills.
2—U.S. & Premier 1½ H.P. Colloid Mills.

MIXERS, SIFTERS & SCREENS

Porter 42" dia. Stainless Conical Blender
Lancaster 6' dia. Vert. Mixer 25 HP.
Kent 3 HP. continuous dry mixer.
Baker Perkins double arm Mixers, 100 & 50 gals. Also single arm Mixers.
Blystone 3000± horiz. spiral mixer.
Read 50 & 100 gal. double arm mixers.
Read 80 qt. vert. mixer. 3 speed.
Orv. Simpson 20"x48" Rotex Sifter
Tyler 3'x5' Vibratory 2 deck Screen.
10—Dry Powder Mixers, 50 to 3.000#.
3—Day 8, 15 & 40 gal. Pony Mixers.
15—Portable Elec. Mixers, ¼ to 3 HP.
6—Lead and Paste Mixers to 150 gals.

MISC. AND SPECIALS

Kux 2½" dia. Tablet Machine.
Anderson & French Oil Expellers.
Tablet Machines Single & Rotary Types.
Kane 2 H.P. Gas Boilers, 200± pressure.
3—Stokes and Day Powder Fillers.
Filling Machines & Labelers.
Pneumatic Scale Automatic Capper.
1—Howe Mogul barrel and bag packer.
2—Worth 12"x12"x12" Vac. Pumps.
8—Devine, Buffalo, Stokes Vac. Pumps.
Shepherd Elevator 18' lift, 42"x54".
Soap Machinery for Toilet, Laundry, etc.
Centrif., Rotary, Duplex & Triplex Pumps.

PARTIAL LISTING. WRITE FOR BULLETIN. WE BUY YOUR SURPLUS MACHINERY & PLANTS

STEIN EQUIP'T CO.

107 EIGHTH ST., BROOKLYN 15, N. Y.
STERLING 8-1944

BRILL EQUIPMENT CO.

FINAL LIQUIDATION

Every Item Priced for Quick Sale

CHEMICAL PLANT

BATON ROUGE, LA.

Installed in 1953
Used less than 30 days

2—BUFLOVAK 6'x5'6" SINGLE DRUM MONEL FLAKERS.

2—62 SQ. FT. MONEL HEAT EXCHANGERS.

3—SCHALLER 4'x13' 316 S.S. REACTORS WITH TUBULAR CALANDRIAS, 513 SQ. FT. EACH.

1—PFAUDLER 250 GAL. HASTELLOY "C" REACTOR.

2—I. R. JET REFRIGERATION UNITS 208 AND 136 TONS.

1—PATTERSON 7'6" CONICAL BLENDER, RUBBER LINED.

1—RIETZ 30' "THERMOSCREW" CONVEYOR DRYER, 304 S.S.

1—WESTERN PRECIPITATION 12' "HOLO-FLITE" CONVEYOR DRYER, 316 S.S.

1—ILLCO DUPLEX ION EXCHANGE NEUTRALIZER, 316 S.S.

2—PFAUDLER 2300, 1200 GAL. GLASS LINED TANKS.

1—LINK BELT TWIN SCREW CONVEYOR, 316 S.S., 18"x10'.

10—Alberger Karbate Heat Exchangers, 370, 255, 188, 170, 159, 70 and 16.4 sq. ft.

1—316 S.S. Hopper, 7500 gal.

2—Karbate Centrifugal Pumps Series 3A, 5 HP XP motors.

3—Lawrence 316 S.S. Vertical Centrifugal Pumps 3" and 1½".

4—Link Belt 12" rubber belt Conveyors, totally enclosed 30' to 77' cc.

2000 ft. 2" to 4" Saran lined pipe with fittings and 200 valves—316 S.S. fittings and valves—Karbate glass and glass lined pipe and fittings—instruments—explosion proof motors—fixtures—steel buildings.

IN STOCK

DRYERS

2—Link Belt Roto-Louvre 6'4"x24', 3'10"x12', steel.
1—Link Belt Roto-Louvre 7'5"x20', stainless steel.
2—Hersey 4'x30', 3'x20' S.S. Hot Air Rotary.
2—Struthers-Wells 5'x15' nickel Rotary Vacs.
2—Buflovak 32"x52" atmos. double drum 316 S.S.
1—Devine 2'x4' Vacuum Drum, 316 S.S.
1—Stokes 138H Vacuum Shelf with 10—44"x40" shelves.
1—Devine double door Vacuum Shelf with 17—59"x78" shelves.
3—Stokes Rotary Vac. 3'x15', 30"x8', 18"x42".
1—Devine Rotating Vacuum 5'x10'.
3—Rotary Dryers 5'x30', 5'x40', 4½'x50'.

MIXERS

8—Day Cincinnatus double arm 660, 250 and 100 gals.
3—Baker Perkins 100, 50 gal. double arm, jacketed.
7—Sprout Waldron S.S. jacketed, Powder, 67, 27 and 10 cu. ft.
1—Struthers-Wells 6'x9' S.S. Rotating, jacketed.

MILLS

1—Patterson 3½'x4' jacketed, steel Ball Mill.
5—Mikro Pulverizers #4TH, #3TH, ±2TH, #2DH.
1—Hardinge 6'x22', Conical, steel lined.
3—National 10"x20", 6"x12" Two-Roll Mills with motors.

CENTRIFUGES

1—Sharples PN14 Super-D-Canter, 316 S.S.
1—DeLaval AC-VO continuous 304 S.S.
2—Sharples C-20, C-27, Super-D-Hydrators, 316 S.S.
2—Bird 18"x28" solid bowl, continuous, 310 S.S.
3—Sharples P16 Monel and S.S. Pressurtite Super Centrifuges.
3—Tolhurs AT&M 40", 36" and 32", Suspended, steel, perforated basket, M.D.
1—Bird 40" Suspended, rubber covered, imperforate basket, M.D.
1—AT&M 36" center-slung, rubber covered, perforated basket.
1—Tolhurst 26" suspended, 316 S.S., perforated basket, M.D.
1—Tolhurst 26" suspended, rubber covered, perforated basket, M.D.

TOWERS — REACTORS — CONDENSERS

2—Pfaudler 200 and 100 gal. glass lined, jacketed, agitated.
1—Buflovak 800 gal., 347 S.S., jacketed, agitated.
1—Blaw Knox 3000 gal., 304 S.S. Reactor.
1—7'x25' 6" S.S. Tower.
10—715, 458, 357, 108 sq. ft. Atmospheric S.S. Tubular Heat Exchangers.
3—2400 sq. ft. Admiralty Tube Heat Exchangers.
3—50 to 350 sq. ft. S.S. Tubular Heat Exchangers.

FILTERS

2—Oliver 8'x10' Monel Rotary Vacuum.
1—Oliver 8'x6' S.S. Rotary Vacuum, UNUSED.
2—Oliver steel 5'3"x6' Rotary Vacuum.
1—Niagara 110-20 Filter with 12 S.S. leaves.
2—#3 Sweetland S.S. Filters with 12—25" dia. leaves 75 sq. ft.
2—#5, #7 Sweetland Filters with 15 and 27 leaves.
4—Shriver 36"x36", 30"x30", c.i. Filter Presses, P&F, washing.

MISCELLANEOUS

4—Orville Simpson Rotex Sifters 40"x120", 40"x84", 20"x81".
2—Stokes #DD2 and #D3 Rotary Tablet Machines.
7—Nash vacuum pumps #H7, #H6, #L5, #L3, #4, #2.
7—Durco S.S. centrifugal pumps 1" to 3".

Partial List of Values—Send for News Flash!

TEXAS OFFICE: 4101 San Jacinto St., Houston 4, Texas—Tel: LOcust 1351

BRILL EQUIPMENT COMPANY

2401 Third Ave., New York 51, N.Y. Telephone: CYpress 2-5703

PERRY EQUIPMENT CORP.

RECENT PURCHASES

3—Ross Condensers, Copper tube bundles and heads, 100# hydr. test pr.—490, 1000, 1065 sq. ft.

4—Patterson Condensers, Copper tube bundles and heads, Built ASME 500# hydr. test steel shell, 100# hydr. test tubes—630, 700 sq. ft.

5—Alco all steel tube Condensers, ASME 75# pr., 1200 sq. ft.

1—Rotary Kiln 6' dia. x 50'6" L x ½" shell.

1—Goslin-Birmingham Quadruple Effect vertical long tube Evaporator, total 6965 sq. ft. copper tubes.

1—Conkey Triple Effect vertical long tube Evaporator, total 1900 sq. ft. copper tubes. UNUSED.

6—80 gal. Copper Jktd. Kettles with single motion agitators.

1—Blaw-Knox 15 gal. T347 Stainless Steel Pilot Plant (Resin Kettle, Jkt. & Agit.)

2—Blaw-Knox ½ gal. Stainless Steel Autoclaves, 2000# Pr., agit.

1—8800 gal. Horiz. Welded Steel Pressure or Vacuum Cooker, Agit., ASME.

2—Fitzpatrick Comminuting Machines, St. St.—Models D-6 & F.

1—Day 30 gal. double arm sigma blade Jacketed Mixer.

2—W & P 100 gal. Sigma Blade Jacketed Mixers.

1—500 gal. T316 St. St. Evaporator with 145 sq. ft. hairpin coil.

2—Charlotte #50 Colloid Mills.

1—Sharples 16P Pressurtite Centrifuge, St. St. Unused.

1—Oliver Precoat Rubber Lined Vacuum Filter 5'3" x 3', closed pressure housing.

5—Shriver 30" C.I. Filter Presses, open dely., up to 50 ch.

2—Pebble Mills, 6' dia. x 8' L.

IN STOCK

STAINLESS STEEL TANKS

1—10500 gal. Horiz. T304—NEW.

1—6500 gal. Vert. Clad—Used.

1—4200 gal. T316, 6' x 20' x 5/16", heat treated.

1—2600 gal. T347 Vacuum Receiver with 15# jkt.

1—2000 gal. Vert. Clad with paddle agitator—Used.

40—From 15 gal. to 1000 gal.

1—T316 Bin or Hopper, 6'9" x 6'9"x10' O.A.H., 275 cu. ft.

PERRY EQUIPMENT CORP.
1407 N. SIXTH STREET · PHILADELPHIA 22, PA.
Phone (Phila.) STevenson 4-7210

EQUIPONOMICS

DRYER, BUFFALO VACUUM D.D., S.S. 6" DIAMETER x 8" FACE. COMPLETE.

BIRD CONT. CENTRIFUGE — 36"x50", S.S. 304, COMPLETE.

NICKEL CLAD KETTLE, ASME JKTD. AGIT., 750 GALLON.

NEW HI VAC PUMP, KINNEY, MODEL DVD8810 110 CFM, 10 MICRONS, 5 HP, XP.

KETTLES, G/L, PFAUDLER, 200, 300, 500 & 1,000 GALLON.

CONDENSERS, 8—All monel 75 to 100 sq. ft. Shell and tube.
DRYER, BUFFALO — Double Drum, 32" dia. x 90". Reconditioned.
HEAT EXCHANGERS—500 sq. ft. Carpenter 20 S.S., 240-1"x8' tubes.
MIXERS—D.A. SIGMA. Jktd. STEEL AND S.S., 2½, 50, 60, & 200 GALLON.
MIXERS—DRY POWDER—400, 600, 1,000, 1,500, 2,000 & 3,000 lb.
PUMP—Oliver Diaphragm, size 2A, S.S.
FILTER SPARKLER, S.S. 304 Model 18-S-15.
TABLET PRESS—Stokes, RB1, complete.
WE BUY SURPLUS EQUIPMENT AND COMPLETE PLANTS

PROCESS PLANTS SERVICE, INC.
333 RAHWAY AVE. ELIZABETH, N. J.
Elizabeth 4-2722

TANKS

Qty.	Dia.	Length	Shell	Hds.	Capacity
2	8'	32'	5/16"	3/8"	11,160 gal.
8	9'6"	30'	5/16"	3/8"	15,500 gal.
8	10'6"	28'	3/8"	3/8"	16,948 gal.

4—Vert. Tanks 28' dia. 19'6" high, 100,000 gals. each, welded, bottom plate 1/2", sides 9/16", roof 1/4".

H. LOEB & SON
4643 Lancaster Avenue Philadelphia 31, Pa.

CENTRIFUGES

Tolhurst, 20", SS, perf. basket.
Fletcher, 40", SS, perf. basket.
Sharples C20, SS, Super-D-Hydrator.
Sharples C27, SS, Super-D-Hydrator.
Sharples PN14, SS, Super-D-Canter.

COLUMNS

SS 18-8 Scrubber, 12"x15'.
SS 347 lined, Scrubber, 5'x18'.
SS 347, 6'x29', 21 trays.
Steel, 4'x53', 23 trays, 160 PSI.
Steel, 2'x47', 20 trays, 375 PSI.
Steel, 3'x49', 28 trays, 425 PSI.
Everdur, 5'x23', 24 trays.
Karbate #22, packed, 19"x12', NEW.

DRYERS

Rotary Vac. 5'x15' nickel clad.
Rotary Vac. 30"x8', Stokes 59AB.
Rotary 26"x8' oil fired with feeder.
Rotary 4'x27' oil fired, motor drive.
Rotary 5'x67' 6" lifters.
Rotary SS, 4'x30', complete.
Rotary Kiln 8'x125'x¾" firing hood.
Rotary Kiln 10'x200'x¾" oil & gas burners, comb. chamber, dust collecting system.
Roto-Louvre 604-24 complete w/furnace.
Roto-Louvre 705-20 SS heating coils comp.
Roto-Louvre 310-12, heating coils, comp.
Roto-Louvre 502-20 comp. w/furnace.
SS Spray, 10'x36', gas fired.
Single drum, 5'x6' atm., scraper.

HEAT EXCHANGERS

100 sq. ft. SS 40# shell 60# tubes.
198 sq. ft. steel 325# Adm. tubes 125#.
252 sq. ft. steel 400# shell 150# tubes.
415 sq. ft. steel shell 125# Adm. tubes 50#.
550 sq. ft. steel 325# shell 160# tubes.
1035 sq. ft. steel 250# shell & tubes.
1800 sq. ft. steel shell Everdur tubes.
3300 sq. ft. steel 150# shell & tubes.

MIXERS

100 gal. Readco jktd. dbl. sigma blades power & tilt.
170 gal. Ajax dbl. arm, power pump.
1050 gal. Paddle dbl. shaft heavy duty NEW.
3900 gal. hor. jktd. 75 PSI paddle agitator.
29 cu. ft. Patterson Conical Blender.
67-27-10 cu. ft. SS Sprout Waldron Powder.
550 cu. ft. SS jktd. rotating oscillating.

PULVERIZERS

Raymond #1 Automatic.
10'x48" Hardinge Ball Mill.
Raymond #40 Imp, Stainless.
5'x8' Kennedy Type M w/disc feeder.

REACTORS

2000 gal. Steel 200 PSI shell coiled.
600 gal. Copper, jacketed 10 PSI.
EXTRUDER—Stainless Steel Screw 2½".
HYDRATOR—Lime, Clyde #3.
KOMBINATOR—Flowmaster K200.
MICROSCOPE—Electronic RCA, complete.
CHURN—Baker Perkins 700 cal. capacity.

→ *SEND FOR OUR LATEST BULLETIN* ←

(WE WILL BUY YOUR SURPLUS EQPT.)

HEAT & POWER CO., Inc.
60 EAST 42nd ST., NEW YORK 17, N.Y.
MURRAY HILL 7-5280

THAT PRODUCTION CURVE WILL CLIMB FASTER With READY FMC

REBUILT EQUIPMENT

REACTORS — VACUUM PANS

3424 K4—Stainless Reactor; with coils agitated; 24"x48"
3824S-12—Pfaudler Glass Lined Jacketed Agitated Reactor; 12"x12"
3824S-14—Pfaudler Glass Lined Jacketed Reactor; 36"x36"
3673 L9—Pfaudler Glass Lined Jktd. Reactor; 16"x28"
3670—Steel Reactor 4'x4' heated with copper coil unit
3944 B2—Steel Jacketed and Agitated Reactor; 315 Gal.; 44"x48"
3168—Stainless 500 Gal. Jacketed Reactor; 6' dia. x 30" straight side
3168 D7—Doppley Jacketed Reactor; 40" Dia., 80 Gal.
3390—Buffalo 500 Gal. New Jktd. Agtd. Reactor; 4'x5'2" motorized
3544—Pfaudler Glass Lined Reactor; 400 Gal. Type EL; 4'x4'; steam Jacketed
3434—Dopp 650 Gal. Cast Iron Full Jktd. Agitated Reactor; 80"x67"
3994 K5—Monel Reactor 785 gal. 5'x5'; Jktd.; Agtd.
3934 C41—Steel Reactor; 950 Gal. 5'x5'6"; agitated; coil heated
4113 D1-2—Two Struthers Wells Stainless Vacuum Pans, 5'x12'8" high with Calandria section 350 SS 2" tubes; 630 sq. ft. 200 PSI
R4 503—Lead Lined Reactor; 1000 Gal. 4'x6'; Jktd. ASME 50 PSI
R4-500—Lead Lined Reactor; 1850 Gal. 6'6"x 6'6"; Jacketed and agitated 10 HP motor
3113 E2—Copper Vacuum Pan; coil heated; 2000 Gal. 7' diameter
3799V-1—Lancaster Stainless Lined Rotary Reactor; Jktd.; 50"x17'4" 300 PSI internal
3870M-2—Mojonnier Stainless Vacuum Pan, 3'x10'
3434—Dopp 650 Gal. Cast Iron Jacketed and Agitated Reactor
R4-530—Stainless Resin Kettle; 500 Gal. with Condenser and agitator
R4-311—Aluminum Pressure Vessel 800 Gal. 51"x98" Jacketed
3934 C8—Bethlehem Reactor 1400 Gal. Steam Coils Cast in shell
R4 505—Devine 1500 Gal. Vertical Nitrating Kettle; 6'x8'6"; Jktd.
R4 507—Dowtherm Jktd. Stainless Agtd. Kettle; 2500 Gal. with accessories
3598—2600 Gal. Steel Jktd. Agitated Pressure Vessel; 8'x7'.

CONDENSERS and HEAT EXCHANGERS

3858-S2—Stokes Condenser and Receiver; 8½"x 62" and 30"x28"
3824-S16—Ott Copper Heat Exchanger having 88-1" tubes; 48" long; copper shell 20"x62"
2579-A8—Devine Condenser and Receiver No. 52X; 160 sq. ft.; 40 gal.
4000 K1—Vertical Stainless Condenser; 231 Tubes; 220 sq. ft.
4000 K7—Stainless Heat Exchanger or Calandria; 185 sq. ft. 300 tubes ¾"
3984 R6—Ross Stainless Condenser, 38.8 sq. ft. 16 Tubes ¾"
E14-302—Ten Karbate Heat Exchangers; each 70.6 sq. ft.
E14 401—Aluminum Reflux Condenser 28"x12', 763 sq. ft. aluminum tubes
E14 402—Davis Cupro-Nickel Shell & Tube Condenser; 100 PSI; 154 sq. ft.
E14-600—Ross Stainless Steel Heat Exchanger 1100 sq. ft. 284 tubes
E14 403—Ross Stainless Steel Tubular Heat Exchanger; 1600 sq. ft.
3853 S9—Ross Gas Fired Indirect Heater; 3000 CFM
R4-532—Girdler Votator Model 4 D; motorized 15 HP; Ammonia Jktd.

COLUMNS AND STILLS

3984R—Stainless Steel Columns; 8"x19' and 12"x15'
C13-200—Stainless Steel Generating Column; 48"x31' high flanged and bolted sections
3476—Copper Jacketed Still Pot; 28"x25" with condenser
3659 R3—Aluminum Bubble Cap Column; 27½" x36'; 60 plate
C14-153—Gas Saturating Tower; 8'x36'6"; 5 PSI
C13-201—Copper Distillation Column; 24"x15'; 16 bell plates
9908 H3—Aluminum Steam Jacketed Vacuum Still; 40"x60"
E13-162—Nickel Clad Evaporating Still; 6'6"x10'
3470—Stainless Steel Bubble Cap Column; 16 sections; 8⅝"x19' high

EVAPORATORS — VACUUM PANS

SPECIAL:—Zaremba Double Effect INCONEL Evaporator with calandria; 430 sq. ft. of surface; with accessories; print available
3274—Swenson Quadruple Effect Long Tube Evaporator; film type
3475—Zaremba Single Cast Iron Evaporator; 130 sq. ft. Copper tubes
2895—Devine Single Cast Iron Calandria type; 28"x8'
3515—Acme 1600 Gal. Copper 6'x10', coils, barometric condenser, etc.
3557—Croll Reynolds Vac. Evaporator; 30"x5' MONEL with accessories
3670—Copper Vac. Evaporator; 66"x73" coils, heat exchanger
487—Zahn & Nagel Continuous Evaporator; 2500 lbs. per hour
3497 S7—Jacketed Crystallizing Evaporators; 24"x21"x12' long
E 12-200—Buffalo Monel Evaporator, 290 sq. ft.
3340—Brand NEW Stainless Steel Kettles good for 100# always in New York stock; sizes up to 500 gal. immediately
3926—Stainless Clad 80 gal. steam jacketed Kettles; 40#
4041 P35—Four Glass Lined 100 Gal. 31"x36" Jktd. Kettles
4041 P46-47—Two Stainless Jacketed & Agitated Pasteurizing Kettles; 46"x30"
3444—Pfaudler Glass Lined Jktd. 350 Gal. Kettle 54"x36"; agitated
3750 FRF—Pfaudler 1000 Gal. Glass Lined Reactor Type XL 66"x66" with 5 HP motor
3597—Special Lot of Copper Jacketed Kettles from 10 gal. to 250 gal.
3218—5200 Gal. Steel Jacketed Closed Top Kettles; 9'6"x9'10½"
3247—Aluminum Steam Jacketed Kettles from 25 gal. to 250 gal.
9908 H3—Aluminum Vacuum Pan 250 Gal. 40"x 60"; Jacketed

FILTER PRESSES and FILTERS

F16-744-5—Shriver 12" Aluminum Pl. & Fr. Filter Presses
655-R15—Sperry Cast Iron 18" Jacketed Filter Press; 10 P.&F.; Cl. Del.
3854-A1—Sperry Aluminum 18" Filter Press; 4 eyed with 9 chambers
F16-172—Sperry 18" Nickel Plated 16 chamber Press; 3 eye closed
F16-740-42—Shriver 18" to 42" Cast Iron Filter Presses
F16-173—Shriver 24" Rubber Cov. Cast Iron 8 chamber Filter Press
4000 K10—Shriver 24" Wood Pl. & Fr. Press; 15 chamber; 2 eyed; cl. del.
3787 E 5—Shriver 30" C.I. 30 Chamber P.&F. O.D. Filter Press
F16-736—Shriver 30" Aluminum P.&F. 22 chamber Closed Del. Press
3673 L35—Sperry 30" Aluminum Filter Press; 34 chambers; hydraulic closing device with pump and motor
McAllen—2 Sperry 30" Wood Plate and Frame Filter Presses
3943—Alsop Stainless Steel Disc Filter 7" dia.; 10 chamber; pump
3935—Shriver 30" C.I. 24 chamber Press; 3 eyed; cl. del. hdr. closing
3989 K1—Independent 32" Wood Pl. & Fr. 68 chambers; 2 eyed; cl. del.
3103—Sperry 36" C.I. Type 41 P.&F. 34 chamber Press; 2 eye Cl. Del.
F16-175—Shriver 36" C.I.P.&F. 48 chamber Open Del. Filter Press
3673-L41—Sperry 36" Aluminum Filter Press 33 chambers; 4 eye with hydraulic closing pump and motor
3168—Sweetland Oliver Pressure Filter No. 2 12 leaves; 2" centers
F14-800—Sweetland No. 5 S.S. Lined Filter with 30 leaves on 2" Centers
F14-850—Sweetland No. 12 Filter having 32 leaves on 4½" Centers
2535—Oliver United Sweetland Filter No. 7 with 41 copper leaves on 2" centers; plastic lined
F14-166—Vallez Nickeled Filter No. 49; 41 leaves on 4" centers
3317—Bird Young Rotary Vacuum Filter; 4'x4'; Stainless Screens
3984 R4—Stainless Steel 150 gallon Vacuum Filter; 35"x35"
3993 M1—Enzinger Leaf Type Pressure Filter 75 PSI; 15 leaves; 360 sq. ft.

- Evaporators
- Reactors
- Condensers
- Colloid Mills
- Centrifugals
- Dryers
- Hammermills
- Screens - Sifters
- Pebble Mills
- Filter Presses
- Vacuum Pans
- Stills - Columns
- Heat Exchangers
- Homogenizers
- Clarifiers
- Mixers
- Pulverizers
- Kettles
- Ball Mills
- Filters

COMPLETE PLANTS FOR SALE FOR THE PRODUCTION OF

- CO2 (Dry Ice)
- Distillery
- Oil Expeller
- Flash Drying
- Pectins
- Cotton Seed Oil
- Chem. Fertilizer
- Fruit Juices
- Lime Calcining
- Yeast
- Brewery
- Solvent Extraction
- Pelleting-Briquetting
- Printing Inks
- Oil Refining
- Vegetable Canning
- Penicillin
- Paint & Lacquer

Send for LATEST BULLETIN for Complete STOCK LIST

FRED R. FIRSTENBERG, Pres.

FIRST MACHINERY CORP.
209-289 TENTH STREET, BROOKLYN 15, N. Y.
PARKING ON THE PREMISES
PHONE: STerling 8-4672

EQUIPMENT
for CHEMICAL AND ALLIED INDUSTRIES

1—J. H. Day Cincinnatus Double Arm, Sigma Blade Mixer, 200 gal.

4—Baker Perkins Steel Jacketed, Sigma Blade, 100 gal. Mixers.

1—Baker Perkins, Steel, Jacketed, 100 gal. Mixer, Dispersion Blade.

1—Day Stainless Steel Double Arm, Jacketed, Sigma Blade Mixer, 50 gallons.

1—Readco Double Arm, Steel, Jacketed, Mixer, 50 gal.

1—AT&M 18" Stainless Steel, Type 316, Suspended Type Centrifuge with explosion proof motor.

1—Tolhurst 12" Stainless Steel Center slung, perforated basket Centrifuge, with explosion-proof motor.

1—Fletcher Stainless Steel 20" perforated basket Centrifuge, with explosion-proof motor.

1—Aluminum 10,000 gal. Tank, 8' x 30'.

1—Bird Suspended Type, Stainless Steel Centrifuge, with 48" perforated basket, plow and explosion-proof motor.

3—Simpson #0 and #1 Intensive Mixers (New).

4—Lightnin', Side Entering, Agitators, 20 HP explosion-proof motors. 450 RPM.

1—Hatfield Stainless Steel Bubble Cap Column, 6' x 16'6" with 7 trays, with 33—6" caps per tray.

75—Struthers Wells Stainless Steel Heat Exchangers, 650 sq. ft. each.

10—Stainless Steel Condensers from 10 to 100 sq. ft.

3—Alco Steel Heat Exchangers, 360 sq. ft. ea.

1—Nickel 10,000 gal. Storage Tank.

1—Sweetland #10 Filter, 36 leaves.

1—Feinc 6'6" x 6' Type 316 Stainless Steel Rotary Vacuum Filter, String Discharge (New).

1—Feinc 6'x6"x6' Type 316 Stain-Rotary Vacuum Filter, String Discharge, 3' x 3' (New).

1—Oliver 3' x 6' Rubber Covered Vacuum Pressure Filter, complete.

1—Sperry 36" x 36" Cast Iron, Plate and Frame Filter Press, 40 Chambers.

1—Vulcan Copper Bubble Cap Column, 66" dia. x 48', with 45 plates.

1—Struthers Wells "Northmaster" Vacuum Mixer, Double Arm, Dispersion Blade, 50 gal.

5—Stainless Steel Storage Tanks, 450 to 4000 gal.

2—Sparkler, Steel Filter, Model 18S4 and 18S18.

1—Shriver 42" Cast Iron, Plate and Frame Filter Press, 54 Chambers.

12—Hoffman Steel Filters Model 20-0-21, 1-20-S, 1-10-S.

1—Ames 40 HP Package Boiler 100 PSI, ASME constructed.

1—Ames Package Boiler 500 HP, 100 PSI, ASME constructed.

2—Buflovak 24" x 36" Chrome plated Double Drum Dryers, complete.

1—Buflovak Double Drum Dryer, 32" x 90".

1—Stokes Stainless Steel Rotary Vacuum Dryer, size 3' x 12'.

5—Devine Single Door Vacuum Shelf Dryers, 5, 10 and 20 shelves.

1—Vulcan Rotary Kiln, 7' x 120'.

7—Ames 100 HP Package Boilers, 125 PSI, ASME constructed.

R. GELB & SONS, INC.
UNION, NEW JERSEY Est. 1886 MUrdock 6-4900

TREMENDOUS SELECTION UNION
Modern Rebuilt Machinery
Rebuilt Machinery — Established 1912 — Practical Prices, Reliability, Prompt Delivery

At Bargain Prices

MRM Semi Auto. S. S. Vacuum Filler.

Pfaudler King C9, Horix 14HE, Elgin S. S. Rotary Fillers.

Resina LC Capper, late model.

Fitzmill "D" 5 HP Comminuter.

Mikro 3TH, 2TH, 1SH, Bantam Pulverizers.

Patterson 6' x 6' Jacketed Porcelain-lined Pebble Mill.

Lehman High-Speed 3-Roll Mill.

J. H. Day High-Speed 3-Roll Mill.

J. H. Day No. 3, 50 gal. Gearless Pony Mixer, 12 cans.

Koven 20,000 lb. Jacketed Mixer.

Baker Perkins, Day, Readco, New Era, Hottman Double Arm Mixers, from 1 to 450 gal. caps.

Day 35, 75 gal. D. A. Steam Jacketed Imperial Mixers.

Day 650 gal. S. J. Jumbo Mixer.

Day and Robinson 15 to 10,000 lbs. Dry Powder Mixers.

McLellan 8 cu. ft. S. S. Blender.

Colton 3RP, 5½T Tablet Machines.

Gemco 56 cu. ft. Double Cone Blender.

Day, Rotex, Robinson, Tyler-Hummer, Gayco Sifters.

Copper, Aluminum and S. S. Jacketed Mixing Kettles.

S. & S. BB Transwrap Filler.

Filler, Hope, Elgin, 1, 4, 5-Head S. S. Piston Fillers.

Carter S. A. Vac. Powder Filler.

Stokes and Smith G1, G2, G6, HG88 Auger Powder Fillers.

Ceco and Jones Auto. Cartoners.

Knapp No. 429 Carton Sealer.

Pony M, MX, ML; Ermold, World, Pneumatic Auto. Labelers.

Sperry, Star 12" S. S. Filters.

Package Machy. FA, CA2, U4, FAQ Automatic Wrappers.

Hayssen, Oliver, Scandia and Miller Auto. Wrappers.

THIS IS ONLY A PARTIAL LIST—OVER 5000 MACHINES IN STOCK

Tell Us All Your Machinery Requirements

Complete Details on Request

UNION STANDARD EQUIPMENT CO.
318-322 Lafayette Street New York 12, N. Y.

TOPS IN USED EQUIPMENT!

1—Bowen S/S spray dryer 10' dia.

1—Sharples Super-D-Hydrator C20, HP XP motor, SS Constr.

2—Fitz comminuters style D 7½ HP explosion proof motors.

7—Karbate heat exchangers, 20.6 sq. ft. & 70.6.

1—Morehouse speed line mill, 20 HP.

2—Baker Perkins 100 gal. sigma blade vac. mixer, one new.

4—Patterson 4' x 4' chrome manganese jacketed ball mills, 225 gals.

2—Patterson 36 x 48, 100 gals. Porcelain pebble mill.

1—Simpson #2 mixer, MD.

2—1-40" link suspended SS centrifuge, 7½ HP motor.

2—7500# dry powder mixers, double ribbon type.

5—48" x 120", 24" x 36", 32" x 52" DBLE drum dryers, one vacuum.

6—Hersey, Ruggles, Coles & Louisville 3' x 24', 4' 6' x 30', 4' x 40' and 6' x 40' dryers, monel, S/S lined, & steel.

1—New Shriver 32" x 32" side fee, open delivery, 2" frame.

4—Paterson 4', 5' and 6' conical blenders, 5 and 10 HP motors.

1—J. H. Day 40 gal. pony mixer.

1—Louisville SS 316—6' x 45' tubular dryer, aluminum tubes.

1—Devine SS 10 shelf vacuum shelf dryer, 23½" x 29".

2—Ross model 30 A B heavy duty post mixers, 135 gallon capacity.

4—12' 6" Jeffrey bucket elevators.

1—Ball & Jewell #1 rotary cutter with 10 HP motor.

1—H. K. Porter 84 sq. ft. condenser and receiver.

1—12" Shriver rubber press, 13 chamber.

1—American Tool 40" copper, bottom discharge, suspended centrifuge, MD.

6—Rotex sifters, 20" x 46" to 40" x 84", 1 and 2 deck.

1—Buflovak monel single effect evaporator, 148 sq. ft.

1—Colton #5½ T single punch tablet machine.

1—Colton #17 automatic tube filling machine.

1—Sweetland #12 filter.

6—Barnstead water still, 5 to 200 gallon, most SS.

3—Pfaudler 500 gallon model ELL glass lined reactors, agitated.

1—Feinc 5' 3" x 3' monel vacuum filter.

3—Triple, Dble. & single effect Evap. one monel.

1—36" Shriver iron filter press, closed del., plate & frame.

1—Buflovak, 40" x 48" single drum flaker.

2—48" Sperry, 50 chamber wood filter presses, HYP closing.

We Purchase Your Surplus — What Have You for Sale?

CHEMICAL & PROCESS MACHINERY CORP.
146 Grand St. WOrth 6-3430 New York 13, N.Y.

Business Wants and Offers

RATES PER INSERTION—PAYABLE IN ADVANCE (Not Subject to Agency Commission)

ALL CLASSIFIED ADVERTISEMENTS—$5.00, thirty-six words or less: 85c. for each additional six words or fraction.

NO DISPLAY—First two words printed in bold face type.

COPY DEADLINE—Wednesday Noon Preceding Date of Publication.

EQUIPMENT OFFERED

For Sale—One used Model 155 Mojonnier 24 head Sanitary, Vacuum Type Bottle Filler for quarts and pints complete with motor drive and controls. OPD 702.

78" SS T304 Cube Blender or Tumbler; Tolhurst 12" SS T316 Pilot Centrifuge; Day, 400 gal. Double Ribbon Blender; Niagara 95-36 Filter; 2—Never Used Sperry 30"—40 frame C.I. Filter Presses; 18'0" dia. Spray Dryer SS T304; Dispersion Dryer with 60" Cyclone, and Multiclone SS T304; 785 sq. ft. SS T316 Heat Exchanger; 2—2,500 gal. SS T304 Sanitary Tanks; 2—14,000 gal. Glass Lined Tanks; various SS T304 Sanitary Vacuum Pans from 36" to 72" Best Equipment Company, 617 Davis Street, Evanston, Illinois. DAvis 8-0926.

EQUIPMENT WANTED

Wanted—One large and one medium sized steel ball mill and three post mixer agitators for use with 125 gallon movable pots. OPD 701.

MIXERS—Lancaster EAG3, Stokes 13 gal., 400 & 1200# spiral blenders.

AUTOCLAVES—S/S one gal., 1000 psi w/agitators, jackets.

PULVERIZERS—Gruendler 2XA (16x14), Williams GA30, (24x30) Jeffrey 30x30, Sturtevant #1 ring roll.

SCREENS—Link Belt 2x5 (double), Tyler 3x5 (single/triple) Robbins 4x12, triple, Robinson Gyro sifters (size 28).

SEPARATORS—Gayco 5', 6', 8' dia. Door Rake Classifier (rubber lined).

PEBBLE MILLS—14 gal. jar, 30x42, 4'x5', 6'x5' porcelain lined, 24x30 S S & 30x30 ball, all w/motor drives.

FEEDERS—Hardinge style B, Syntrons S S F44 w/solenium rectifier.

HARDINGE CONICAL MILLS—2'x8" lab, 6'x22", 6'x36" (air swept) 7'x36" Pebble (air swept).

ROTARY DRYERS—3'x32', 4½'x40' w/variable speed drive.

EXHAUSTERS—American, Buffalo, Clarage, Sturtevant—3500 to 35000 CFM, Spencer Turbo 1300 CFM—16 oz.

NASH HYTOR VACUUM PUMPS—MD673, 623, H-7, Ingersoll Rand 16 cfm, 2 stage.

CRUSHERS—ROLL—Sturtevant 8x5, 18x18, 32x12, 42x16.

FORK LIFT—7500# Hyster-new pneumatic tires, new engine.

LAWLER COMPANY
LAWLER PLACE, METUCHEN, N. J.
METUCHEN 6-0245

EQUIPMENT WANTED

Wanted To buy—Vertical, Niagara Type pressure filter. Approximately 200 sq. ft. filter area. Stainless Steel Leaves. Stainless Steel or rubber lined jacket. National Lead Co., St. Louis Smelting and Refining Division, Metals Refinery, Fredericktown, Missouri.

Hydrochloric and Nitric Acid generating unit of pilot plant or small plant scale. OPD 696.

FACILITIES OFFERED

Processing Facilities and equipment available for edible and pharmaceutical grade products—all sanitary stainless and glass lined equipment. Job lot or continuous processing with quality control and technically trained supervision. Vacuum evaporating and concentrating, crystallizing, centrifuging, spray and rotary drying, screening, milling. Up-State New York location. OPD 667.

MATERIALS OFFERED

Offered At big discount: 4000 lbs. Ortho Cresol (Reilly); 4000 gallons high boiling Cresylic Acid, (Phenol Coefficient 15); 10,000 lbs. Ortho Chlor Aniline; 25,000 lbs. Sodium Formate; 1700 lbs. Borax (Sodium Borate - Merck's, 1 lb. pkgs.) Aceto Chemical Co., Inc., Flushing 54, N. Y., INdependence 1-4100.

Balsam Fir Oregon, clarified, light clear color, attractively priced, prompt shipments, state requirements. OPD 704.

POSITIONS WANTED

French Businessman, 35, U. S. resident well acquainted in French and other European chemical markets, was expert—import, export experience—4 languages—seeks reliable position. OPD 700.

Manufacturers Representative, with office in Philadelphia seeks additional representation for chemicals and allied industries. Former DuPont man with wide experience and personal following. Now representing fatty acids and aromatic chemicals. OPD 699.

MILLS—3 roll and 5 roll J. H. Day, Ross, Lehman
PAINT MIXERS—J. H. Day, Baker-Perkins
CENTRIFUGAL—Tolhurst 48"
PULVERIZERS — RAYMOND Mikro
FILLING MACHINES—Powder, Liquid, Paste
HIGHEST CLASS RECONDITIONING
Telephone: YArds 7-3665
JACKETED KETTLES—Stainless Steel and Plain
COLLOID MILLS
LABELERS — Spot, Can, Semi-automatic
TABLET PRESSES — Single and Rotary
WE BUY and/or SELL SINGLE UNITS and COMPLETE PLANTS
WE SELL THE WORLD OVER
NEWMAN TALLOW & SOAP MACHINERY CO.
ESTABLISHED IN 1880
NEWMAN TALLOW & SOAP MACHINERY CO. INC.
1051-59 WEST 35TH STREET
CHICAGO 9, ILLINOIS

IF YOU NEED

CAPPERS — CENTRIFUGALS — CONDENSERS — DRYERS — EVAPORATORS — FILLERS — FILTERS — FILTER PRESSES — GRINDERS — KETTLES — LABELERS — MILLS — MIXERS — PUMPS — SCREENS — CASE GLUERS — TABLET PRESSES — TANKS — ETC.

WRITE US OR CALL
SEELEY 8-1431
Send us your list of idle machines.

LOEB EQUIPMENT SUPPLY CO.
814 W. Superior St. Chicago 22, Ill.

FOR SALE FROM STOCK

NEW STAINESS STEEL MIXERS DOUBLE RIBBON from 200 to 2,000 lb. capacity.
W&P 100 GALLON WC MIXERS jacketed sigma blades.
B&P LAB 2¼ GAL. MIXERS new jacketed.
LIGHTNIN 3 HP PORT AGIT new surplus.
PATTERSON 4x5 BUHRSTONE lined PEBBLE MILLS.
BUFLOVAK DOUBLE DRUM DRYERS 32"x52", 36x84, 42x120.
SMALL AND LARGE BALL MILLS and PEBBLE MILLS.
MIKRO 1TH, 2DH, 3TH PULVERIZERS.
SEND US YOUR INQUIRIES and your OFFERINGS on USED and NEW EQUIPMENT

AARON Equipment Company
1347 So. Ashland Avenue, Chicago 8, Illinois
PHONE: CHesapeake 3-5300

NEW AND GOOD-AS-NEW EQUIPMENT

1—Brewer Ampul Washer, Stainless Steel, 7000 ampuls per hour, 6-box type.
1—Stainless Tank #430 Chrome, vert. 7'x10' deep.
20—Jacketed Kettles—Stainless, Copper, Aluminum.
1—Day Mixer, steam jacketed, 50 gal. Sigma Blade.
1—Copper Evaporator, steam jacketed, 9'1"x3'9".
60—New Pressure Cookers, 18"x18" & 24"x28".
150—Pumps—steam and electric.
1—New Glass Nash Centrifugal Pump, 160 gpm.
1—Buflovak Jacketed Impregnating Tank 42"x52".
1—4x8 Sturtevant Jaw Crusher.
1—Ribbon type Mixer, steam jacketed.
1—Abbe Ball Mill, 36"x42" Buhrstone lined.
#316 Stainless Steel Tanks, new 100, 200 & 360 gal.
2—Nash Air Compressors, Type AL-623.
1—Manton Gaulin Stainless Homogenizer 125 gph.
2—I&R Vacuum Pumps, 5 H.P., 60' & 100'.
4—New Heat Exchangers, 12" dia, 11' lg., 43 steel tubes, 2 passes.
1—Kennedy-Van Saun Rotary Dryer, 4'x40'.
Davenport Rotary Steam Tube Dryer, 6'x36'.
2—Stainless Steel Steam Jacketed Readco Mixers.
1—#316 Stainless Reactor, 265 gals. cap., jacketed.
Abbe Pebble & Tube Mill, 5'x22'—Buhrstone Lined.
1—Patterson Ball Mill, porcelain lined, 17"x27".
1—Patterson Ball Mill, 42x36, jacketed.
3—Dopp Kettles with agitators, 600 gal. cap.
45—Steel Tanks from 100 to 100,000 gals.
2—Large Steam Jacketed Horizontal Mixers.
Robinson Pulverizer #20, with 2 motors 10 HP each.
Robinson Ribbon Type Mixer, 30"x10'—like new.
4—Horizontal Retorts 200# w.p., A.S.M.E., from 12" to 24" dia., 4' to 12' long.
2—Crystallizers—10' long.
1—Patterson Kelly Blender 3 cu. ft. Stainless Steel, with baffle plates and 1 H.P. motor & 1—10 cu. ft. with 2 H.P. motor.
3—3,000 gal. Jacketed Kettles with Turbo Agitators.
1—#10 J. H. Day 300 gal. Sigma Blade Mixer, Jacketed.

H. LOEB & SON 4643 LANCASTER AVE., PHILADELPHIA 31, PA.

HERE'S ECONOMY!

4—Stainless Steel Merco Type C-30 Continuous CENTRIFUGAL SEPARATORS, each with 100 H.P. TEFC motors & controls. New 1954.
2—S/S Hersey Rotary Dryers, 5'x26' and 6'x23'.
1—3'x50' Rotary D. H. Dryer or Cooler.
2—8'x125' Rotary Kilns.
1—Buflovac 42x120, 32x120 Atmos dbl. Drum Dryers, complete; 1—American 24x36.
2—54"x70" and 1—40"x60" Bird Continuous Centrifugals, S/S Solid bowls.
1—2TH Micropulverizer.
2—1,000 gal. Monel, jack., agit., kettles.
1—Day #30 Imperial jack. Mixer, 75 gal.
1—Buflovac 48"x40" Drum Flaker, chrome plated, s/s ends.
9—Sperry 18"x18" iron Filter Presses, 11 chambers.
2—Link-Belt Co. ROTARY DRYERS, Roto-Louvre, #502-16 Type C, 5'2" dia. 16' long with #304 S/S contact parts.
3—Unused #12 Sweetland FILTERS, 48 bronze monel covered bottom drainage leaves 3" c/c. Latest type; 1—#2, 23 copper leaves 1½" cc.
5—Horiz. Dry Powder Ribbon Mixers, 4000#, 1500#, 500#.

Wanted: Your Idle Machines or Plants
Send List Today

Our 38th Year
CONSOLIDATED PRODUCTS COMPANY, INC. 60 BLOOMFIELD STREET HOBOKEN, NEW JERSEY
Tel.: HO 3-4425 • N. Y. Tel.: BA 7-0600

FDA Funds Increase

—Continued from page 3

agree to act on these recommendations of her advisory committee on the Food and Drug Administration, and that she will initiate the steps necessary to have the President send to congress a formal request for a supplemental appropriation. But whether this is done or not, I think we in the congress should act promptly.

"I urge the appropriations committee to consider my bill as soon as possible so that, before this session of congress adjourns, we can put through a supplemental appropriation for the Food and Drug Administration to initiate—and that is all we would be doing, to initiate—on an efficient organizational basis as recommended by the advisory committee the first steps toward an eventual threefold or fourfold expansion in the work and facilities and personnel of the Food and Drug Administration."

Gov't Officials Hit

—Continued from page 3

Mr. Townsend said that the government had realized more than $11,000,000 from income and continuing liquidation and sale of enemy assets. This amount is almost double that received during the same period of 1954.

He also reported that the emphasis placed on the processing and disposition of claims for the return of vested property and for the payment of debts owned to creditors by former owners of vested property has brought excellent results. In the first six months of 1955, he stated, more than 9,000 debt claims were disposed of compared with 794 for the same period of 1954. From July 1, 1954, to June 30, 1955, more than 15,000 debt claims were disposed or more than twice the number settled from the time of inception of the debt claim program in 1947 to June 30, 1954.

SCI Chooses Davidson

—Continued from page 4

ing petroleum and natural gas as the raw materials for chemical synthesis.

Dr. Davidson's own studies pioneered the development of ethylene glycol, the glycol esters and esters, the ethanolamines, vinyl resins and numerous other industry industrially-new materials. Some twenty-eight patents have been issued on his work.

Subsequently Dr. Davidson became manager of chemical sales for Carbide & Carbon, advancing through various executive and administrative posts in that company and in Union Crbide, the parent concern. Since 1954, he has been vice-president and member of the appropriations committee of Union Carbide. His own present special interests include important programs on atomic energy and the hydrogenation of coal.

PROCESS EQUIPMENT
We Scout The Country For Serviceable Equipment
Dryers—Mixers—Pulverizers—Tanks—Kettles
Centrifugals — Evaporators — Fillers — Filters
Grinders — Presses — Tablet Machinery — Case Gluers & Sealers
Write—Wire—or Call
SOuth 8-4451 — 4452 — 8782
SPECIAL DEPARTMENT FOR NEW FABRICATIONS
We Buy Complete Plants or Single Units
EQUIPMENT CLEARING HOUSE, INC.
111 33rd Street • Brooklyn, N. Y.

PAINT EQUIPMENT
High Speed Stone Mills at low prices. Large Stock of good Used Paint Machinery including Pebble, Colloid and Roller mills, mixers, filters, tanks, hoists, X.P. lights and General Factory supplies.
— TO BUY OR SELL —TRY —
GENERAL TRADERS, Inc.
2633 W. Grand Ave. Chicago 12, Ill.
Phone: ARmitage 6-8050

CUSTOM REFINING FACILITIES . . .
AVAILABLE
- Complete Distillation Service • Distillations
- Extractions • Fractionations Drum Lots—Tank Cars

WANTED
- All Types of Crude Mixtures
- By-Products, Residues, Wastes
- Contaminated Solvents

Truliana CHEMICAL & ENGINEERING CO., Inc.
Box 426, Union, N. J. Murdock 6-5252

IN "SURPLUS"
ONE NAME STANDS OUT...
. . . 30 YEARS OF DISCREET SERVICE TO THE PROCESSING INDUSTRIES . . .
TURN INVENTORIES INTO CASH!
WE BUY
RAW MATERIALS, FINISHED PRODUCTS COMPONENTS, BY-PRODUCTS.
Chemical Service Corp.
88 BEAVER ST. N. Y. 5, HAnover 2-6970
EST 1925 Cable address "RETORTS" N. Y.

LACQUER DISPERSIONS *from a well known company*
$10,000 Value — Our Price $2,800
CHEMSOL, INC., • 70 Dod Street, Elizabeth, N. J. • EL 4-7654

we will buy your...
SURPLUS CHEMICALS
SOLVENTS WAXES OILS
RESINS DRUGS ETC.
WIRE OR PHONE FOR IMMEDIATE ACTION
All offers held in strictest confidence
Barclay CHEMICAL COMPANY, inc.
77 VARICK STREET NEW YORK 13, N. Y. - WO 4-5120

Advertising Index

Aaron Equipment Company 66
American Agricultural Chemical Co., The .. 1
American Cyanamid Company 41
American Potash & Chemical Corporation .. 31
American Resinous Chemicals Corporation 60

Baker, J. T., Chemical Co 1, 46
Barclay Chemical Company, Inc 66
Bareco Oil Co 43
Barium & Chemicals, Inc 38
Barrett Division, Allied Chemical & Dye Corporation 44
Benzol Products Company 49
Berkshire Chemicals, Inc 49
Better Finishes & Coatings, Inc 39
Bios Laboratories, Inc 51
Bower, Henry, Chemical Mfg. Co 39
Bowman, Charles, & Co 52
Bradley Mining Co 56
Brill Equipment Company 63
Brode Corporation, The 60
Browning Chemical Corp 46

Carbide & Carbon Chemicals Company, Division Union Carbide & Carbon Corporation 2, 42
Celanese Corporation of America, Chemical Division 68
Chemical Division, Food Machinery & Chemical Corporation 35
Chemical & Process Machinery Corp 65
Chemical Service Corp 66
Chemical Solvents, C. P., Incorporated 68
Chemirad Corporation 41
Chemsol, Inc 66
Church & Dwight Co., Inc 36
Coal Chemical Sales Div. United States Steel Corp. Subsidiaries 45
Columbia Southern Chemical Corporation .. 36
Commercial Solvents Corporation 6
Connelly, Inc 45
Consolidated Chemical Industries, Inc 37
Consolidated Products Company, Inc 66
Consulting Chemists and Engineers 62
Corn Products Refining Company 60
Cornwell Chemical Corp 68
Coupe, Robert A 38
Croda, Incorporated 60
Crossett Chemical Company Division of The Crossett Company 42

Dicalite Division, Great Lakes Carbon Corporation 61
Distillation Products Industries, Div. of Eastman Kodak Company 42
Dodge & Olcott, Inc 52
Doggett, Stanley, Inc 58
Dunkel, Paul A., & Company, Inc 51
Du Pont de Nemours, E. I., & Co., (Inc.) .. 15, 41

Eastman Chemical Products, Inc 18, 58
El Dorado Oil Works 60
Emery Industries, Inc 60
Equipment Clearing House, Inc 66
Esso Standard Oil Company 27

Fairmount Chemical Co., Inc 45
Fallek Products Company, Inc 51
Felton Chemical Company, Inc 54
Fezandie & Sperrle 56
Fine Chemical Company 58
Fine Organics, Inc 51
First Machinery Corp 64
Florasynth Laboratories, Inc 53
Fritzsche Brothers, Inc 53

Gas Purifying Materials Co., Inc 39
Gelb, R., & Sons, Inc 65
General Tire & Rubber Company, The 38
General Traders, Inc 66
Greeff, R. W., & Co 1, 40
Gregory, Walter C., Corporation 51
Gross, A., & Company 61

Halby Chemical Co., Inc 39
Harchem Division, Wallace & Tiernan, Inc .. 41
Harshaw Chemical Co., The 21
Heat & Power Co., Inc 64
Hercules Powder Company, Incorporated .. 26
Heyden Chemical Corporation 47
Hoffmann-La Roche, Inc 8
Hooker Electrochemical Company 37
Hosco Chemical Works, Inc 49
Hutchinson, D. W., & Co., Inc 53

Industrial Raw Materials Corp 68
International Minerals & Chemical Corporation 28

Jones & Laughlin Steel Corporation 33

Lawler Company 66
Lever Brothers Company 41
Loeb, H., & Son 64, 66
Loeb Equipment Supply Co 66
Lucidol Division, Wallace & Tiernan, Incorporated 40

Machinery & Equipment Corp 63
Magnus, Mabee & Raynard, Inc 53
Mallinckrodt Chemical Works 19, 58
Montrose Corporation, The 58
Mathieson Chemicals, Olin Mathieson Chemical Corporation 29
McKesson & Robbins, Incorporated 47
Meer Corporation 48
Metalectro Corporation 51
Michigan Chemical Corporation 17
Monsanto Chemical Company 45, 52
Mutual Chemical Division, Allied Chemical & Dye Corporation 56

National Aniline Division, Allied Chemical & Dye Corporation 23
National Milk Sugar Company 42
Neville Chemical Co 57
Newman Tallow & Soap Machinery Co., Inc. 66
Niagara Alkali Company 30
Nitrogen Division, Allied Chemical & Dye Corporation 39, 54
Norda Essential Oil & Chemical Company, Inc. 12

Ohio-Apex Division, Food Machinery and Chemical Corporation 58
Olin Mathieson Chemical Corporation Industrial Chemicals Division 29
Orbis Products Corporation 51
Oronite Chemical Company 14

Pacific Coast Borax Co 1
Parsons-Plymouth, Inc., M. W 60
Penick, S. B., & Company 48
Pennsylvania Industrial Chemical Corp 57
Pennsylvania Refining Company 43
Perry Equipment Corp 64
Pfaltz & Bauer, Inc 51
Pfizer, Chas., & Co., Inc 11
Philipp Brothers Chemicals, Inc 59
Polak & Schwarz, Inc 54
Potash Company of America 55
Prior Chemical Corporation 1
Process Plants Service, Inc 64
Procter & Gamble Co 41
Publicker Industries, Inc 10
Purocaine, Inc 52

Quaker State Oil Refining Corp 42

Raney Catalyst Co 41
Read, Chas. L., & Co., Inc 38
Richmond Mica Corp 58
Richter, Gedeon, Pharmaceutical Products, Inc 51
River Plate Corporation, The 49
Robeco Chemicals, Inc 68
Rohm & Haas Company 24
Rosen, Karl B., & Co., Inc 49

Sergeant, E. M., Pulp & Chemical Co., Inc .. 55
Sharples Chemicals, Inc 1
Shaw Wallace & Co., Ltd 52
Sheffield Chemical Company, Inc 59
Shell Chemical Corporation 13
Shell Oil Company 43
Snell, Foster D., Inc 56
Spencer Chemical Company 37
Stauffer Chemical Company 37
Stein Equipment Co 63
Sterwin Chemicals, Inc 54
Strohmeyer & Arpe Co 61
Sun Oil Company 32
Sunkist Growers, Inc 25
Synthetic Products Company 60

Texas Gulf Sulphur Co., Inc 55
Thurston & Braidich 52
Todd, A. M., Company 53
Tragacanth Importing Corp 51
Treen Box Co 38
Truland Chemical & Engineering Co., Inc .. 66

Ungerer & Co 54
Union Carbide & Carbon Corporation, Carbide & Carbon Chemicals Company Division 2, 42
Union Standard Equipment Co 65
United States Potash Company, Incorporated 55
U. S. Steel Corporation Subsidiaries, Coal Chemical Sales Div 45

van Ameringen-Haebler, Inc 54
Versenes-The Dow Chemical Company 22
Vitamerican Oil Corporation 51

Will & Baumer Candle Co., Inc 60
Wilner Wood Products Co 58
Wirz, A. H., Inc 20
Wood, Alan, Steel Company 45
Wyandotte Chemicals Corporation 36

Zinsser & Company, Inc 56

Current Market Quotations

—Continued from page 33

Wax, bees, crude, African, bgs. lb. .65 Nom.
Brazilian, bgs. lb. .67 Nom.
Central American, bgs lb. .64 - .65
Chilean, bgs. lb. .67 Nom.
refd., USP, bleached, white bricks lb. .74 - .76
slabs lb. .73 - .75
yellow, bricks lb. .67 - .68
slabs lb. .66 - .67
Candelilla, crude, bgs lb. .62 - .64
refd., bgs lb. .63 - .65
Powdered candellila, 20 mesh, 7c. per lb. higher, 80 mesh, 7c.; 100-200 mesh, 8c.
Carnauba, chalky, bgs., ton lots. lb. .52 - .54
North country No. 2, bgs., ton lots lb. .65 Nom.
No. 3, Ceara, crude, bgs., ton lots lb. .55 - .57
refd., pure, bgs., ton lots lb. .63 - .65
tech., bgs., ton lots lb. .60 - .62
Parnahyba, crude, bgs., ton lots lb. .62 - .64
yellow, No. 1, Ceara, bgs., ton lots lb. .94 - .96
Parnahyba, bgs., ton lots. lots lb. 1.00 - 1.02
Powdered carnauba wax price differentials same as powdered candelilla.
Japan, bgs. lb. .45 Nom.
Microcrystalline, 170-175°F., m.p. ASTM, penetration 15-20 ctns., 20,000 lbs., group 3, works lb. .13 - .14
smaller lots, same basis. lb. .14 - .15
black, ctns., 20,000 lbs., same basis lb. .11½- .12½
smaller lots, same basis. lb. .12½- .13½
white, ctns., 20,000 lbs., same basis lb. .24 - .25
smaller lots, same basis. lb. .25 - .26
180°-185°F. m.p., ASTM, penetration, 7-11; amber, ctns., 20,000-lb. lots, same basis. lb. .16 - —
smaller lots, same basis. lb. .17 - —
black, ctns., 20,000 lbs., same basis lb. .14½- —
smaller lots, same basis. lb. .15½- —
white, ctns., 20,000 lbs., same basis lb. .27 - —
smaller lots, same basis. lb. .28 - —
190°-195°F., m.p., ASTM, penetration 2-7, amber, ctns., 20,000 lbs., same basis lb. .20 - —
smaller lots, same basis. lb. .20½- —
black, ctns., 20,000 lbs., same basis lb. .18 - —
smaller lots, same basis. lb. .18½- —
white, ctns., 20,000 lbs., same basis lb. .33½- —
smaller lots, same basis. lb. .34½- —
Montan, dom., refd., bgs lb. .30 - .32
imp., crude, Bohemian, bgs. lb. No prices.
German, bgs. lb. No prices.
Muricury, refd., pure, bgs lb. .95 - .97
tech., bgs lb. .85 - .87
Paraffin (see P).
Spermaceti, blocks, cs. lb. .25½- .31
cakes, cs. lb. .26½- .39
Sugar cane, dom., refd., slabs, works lb. .65 - .75
spot lb. .67¼- .72¼
White lead (see Lead, white).
White pine bark, rossed, bls lb. .18 - .19
White precipitate, USP, powd., dms. lb. 6.55 - —
Whiting (see Calcium carbonate).
Wild cherry bark, thin, nat., bls. lb. .18 - .19
rossed, bls lb. .19 - .20
Witch hazel bark, bls lb. .16 - .17
leaves, bls lb. .20 - .21
Wollastonite, fine, bgs., c.l., works. ton 39.50 - —
l.c.l., ex whse ton 56.00 - —
medium, bgs., c.l., works ton 27.00 - —
l.c.l., ex whse ton 44.00 - —
Woolfat, crude (see Degras).
USP (see Lanolin).
Wormseed, American, bgs lb. .20 - .25
Levant, bgs lb. 4.25 - 4.50

X

Xylene (see Xylol).
Xylenol, crys., 58° 60°C., m.p., dms., l.c.l., works lb. .40 - —
56°-58°C., dms., l.c.l., works, frt. equald lb. .30 - —
45°-47°C., dms., c.l., same basis. lb. .212 - —
l.c.l., same basis lb. .215 - —
tanks, same basis lb. .199 - —
fraction, b.r. 7°-9°C., dry above 227°C., dms., c.l., same basis gal. .96 - —
l.c.l., same basis gal. .99 - —
tanks, same basis gal. .85 - —
dry at or below 227°C., dms., c.l., same basis gal. 1.11 - —
l.c.l., same basis gal. 1.14 - —
tanks, same basis gal. 1.00 - —
Xylidines, mixed, dms., c.l., truckload, works lb. .39 - —
l.c.l., same basis lb. .40 - —
tanks, same basis lb. .38 - —
Xylol, coaltar, indust., tanks, works.
Bethlehem, Pa gal. .34 - —
Birmingham district gal. .32 - —
Chicago district gal. .35 - —
Cleveland district gal. .34½- —
Geneva, Utah gal. .27 - —
Johnstown, Pa. gal. .33 - —
Lackawanna, N. Y. gal. .35 - —
Lone Star, Tex gal. .33 - —
Lorain, Ohio gal. .33 - —
Middletown, Ohio gal. .34 - —
Minnequa, Colo gal. .34 - —
Philadelphia district gal. .34 - —
Pittsburgh district gal. .32 - —
Sparrows Point, Md. gal. .34 - —
Terre Haute, Ind gal. .35 - —
Youngstown, O gal. .32½- —
petroleum, indust., tanks, works:—
Bayonne, N. J. gal. .34 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill. gal. .35 - —
Philadelphia, Pa. gal. .34 - —
Providence, R. I. gal. .35 - —
Wood River, Ill. gal. .35 - —

Y

Yara yara, cns lb. 2.15 - 2.65
Yeast, brewer's, dry, USP, 50 Int'l B units per gram, 100-lb. dms lb. .47 - —
90 Int'l B units per gram, 100-lb dms lb. .52 - —
200 Int'l B units per gram, 100-lb dms lb. .56 - —
300 Int'l B units per gram, 100-lb dms lb. .60 - —
Yellow, barium chromate, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island St Louis St Paul lb .35 - —
Yellow barium chromate price differentials in other States and city zones are those for chrome yellow below.
Yellow, benzidine AAA, bbls., dlvd. lb. 2.00 - —
AAOT, bbls lb 2.25 - —
Lightfast, bbls. lb 3.15 - —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies lb. 2.85 - —
lithopone, all shades, bbls., frt. alld. E of Rockies lb 1.15 - —
Cadmium yellows, Los Angeles and San Francisco, ex-whse., 1c. per lb. higher.
Chrome, CP, bbls., dlvd. N. of Tenn., and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island lb. .32 - —
Dlvd. Ala., Fla., Ga., La. (Shreveport 1½c. higher); Miss., N. C., S. C., Penna., Dallas, Tex. 1½c. higher; Ft. Worth, Tex. 1½c. higher; El Paso Tex. 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher; dlvd. Pac. Coast, for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Hansa 10 G, bbls., same basis as yellow, chrome lb. 2.15 - —
G pigment, bbls lb. 1.91 - —
Iron oxide, natural, French type, bgs., c.l., works lb. .05¼- —
Peruvian type, bgs., l.c.l lb. .038 - —
pure, bgs., c.l., works lb. .11 - —
l.c.l., works lb. .11¼- —
Mercury oxide, bbls., 1,000-lb. lots lb. 5.58 - —
smaller lots lb. 5.60 - —
Ocher (see Yellow, iron oxide, natural).
oz. 4.50 - —
Zinc (chromate), bbls., dlvd lb. .26 - —
basic, dlvd lb. .31 - —
Yerba santa leaves, bls lb. .40 - .42
Yohimbine hydrochloride, bots, tin.

Z

Zein, bgs., 36,000-lb. lots or more lb. .38 - —
1,000 to 36,000-lb. lots, works lb. .40 - —
smaller lots, works lb. .43 - —
Zinc acetate, NF VIII, dms lb. .53 - —
tech., dms., works lb. .27 - —
Borate, bgs., c.l., dlvd. E lb. .192 - —
l.c.l. dlvd E lb .202 - —
Chloride, NF, gran., dms lb. .42 - —
precipitated powd dms lb .26 - —
soln., 50%, dms., c.l., works. 100 lbs 5.50 - —
l.c.l., works 100 lbs. 6.10 - —
tanks, works 100 lbs. 4.85 - —
tech., fused, dms., c.l., works. 100 lbs. 10.10 - —
l.c.l., works, dms 100 lbs. 10.60 - —
gran., fib., dms., c.l., works 100 lbs. 10.85 - —
l.c.l., works 100 lbs. 11.35 - —
Chromate (see Yellow, zinc).
Cyanide kgs., 1,000-lb. lots or more works lb. .523 - —
smaller lots, works lb. .543 - —
Dust, pigment, bbls., c.l., works. lb. .15¾- —
l.c.l., works lb. .16¾- —
Fluoride bbls., works lb. .49 .50
Hydrosulfite, dms., c.l., frt. alld. lb. .21½- —
l.c.l., frt. alld lb. .22 - .37½
Metal, prime western slabs, E. St. Louis lb. .12½- —
New York lb. .13 - —
Naphthenate, liq., 8% Zn., dms., frt. alld lb. .24½- —
10% Zn. dms. frt alld lb. .30 - —
Oxide, pigment, American process, lead-free, bgs., c.l., frt. alld lb. .14 - —
l.c.l., same basis lb. .15 - —
Zinc oxide, leaded 35%, bgs., c.l., milled, frt. alld lb. .14½- —
l.c.l., same basis lb. .15½- —
50%, bgs., c.l., same basis lb. .14⅞- —
l.c.l., same basis lb. .15⅞- —
French process, coml., green seal, bgs., c.l., frt. alld lb. .15¾- —
l.c.l., same basis lb. .16¾- —
red seal, bgs., c.l., same basis lb. .15¼- —
l.c.l., same basis lb. .16¼- —
white seal, bgs., c.l., same basis lb. .16¼- —
l.c.l., same basis lb. .17¼- —
USP, ctns., c.l., frt. alld lb. .17¼- —
l.c.l., same basis lb. .18¼- —
Zinc oxide Pac. coast prices 1c. higher.
Phenolsulfonate, NF, gran., dms. lb. .39 - —
powd., dms lb. .42 .49
Resinate, precip., 7.2-7.6% Zn, dms., frt. alld lb. .29 - —
Silicofluoride bbls. works lb. .12 - .13
Stearate, tech., USP, ctns., c.l., lb. .37 - —
l.c.l., lb. .38 - .42
Sulfate cryst., 22% Zn, bgs., c.l., works, frt. alld 100 lbs. 8.05 - —
l.c.l. same basis 100 lbs. 8.60 - —
flake, 25½% Zn, bgs., c.l., works, 100 lbs. 6.00 - 7.40
l.c.l., works 100 lbs. 7.00 - 7.90
powd., monohydrate, 36% Zn, bgs., c.l., dlvd E 100 lbs. 8.50 - —
l.c.l., dlvd. E 100 lbs. 9.50 - —
Zinc sulfate in bbls. 40c. higher.
USP gran dms lb 26 —
Sulfide, pure, bgs., c.l., dlvd lb. 2530- —
Undecylenate, dms. lb 2.25 2.50
Yellow (see Yellow, zinc)
Zinc-ammonium chloride, bgs., c.l., works 100 lbs. 9.65 - —
bbls., c.l., works 100 lbs. 10.25 - —
l.c.l., bbls., works 100 lbs. 10.75 - —
Zinc-formaldehyde sulfoxylate, basic, dms., c.l lb. .25½- —
l.c.l. lb. .26 - .41½
normal, dms., l.c.l., works lb. .52 - —
Zircon (G), gran., bgs., c.l., works. lb. .03½- —
5 tons to c.l., works lb. .03⅝- —
1 ton to 9,999-lb lots, works. lb. .04 - —
smaller lots, works lb. .06½- —
milled, bgs., c.l., works lb. .04½- —
5 tons to c.l., works lb. .04⅝- —
1 ton to 9,999-lb lots, works. lb. .04⅝- —
500 to 1,999-lb lots, works. lb 07½- —
Zircon (G) in barrels, 1c. higher.
Zirconium acetate, 13% soln. ZrO_2, c.l., 30,000 lbs. minimum, works lb. 23 —
Hydride cns., works lb 7.00 8.45
Nitrate dms., ex whse lb. 4.50 7.00
Oxide, 92½%-99%, white, grd., bbls., or bgs., works lb. 1.50 - —
lump, electric-fused, bgs., c.l., works lb. .44 - —
5-ton lots, works lb. .44½- —
1 ton to 9,999-lb. lots, lbs works lb .45 - —
CP, white, grd., bbls., or bgs., works lb. 1.50 - —
lump, electric fused, bags, 500 to 1,999-lb. lots, works lb. .45½- —
smaller lots, works. lb. .48 - —
milled, electric-fused, bgs., c.l., works lb. .59 - —
5-ton lots, works lb. .59½- —
1 ton to 9,999-lb lots, works lb. .60 - —
500 to 1,999-lb. lots, works lb. .60½- —
smaller lots, works. lb. .63 - —
Oxychloride, cryst., ctns., 5-ton lots, works lb. .35½- —

PETROLEUM EXTENDERS

Hexane • Textile Spirits • Lactol Spirits • Mineral Spirits

THE CP

CHEMICAL SOLVENTS

INCORPORATED

60 PARK PLACE, NEWARK 2, NEW JERSEY — MArket 2-3650 WOrth 2-7763

YOUR CONTACT WITH THE WORLD'S MARKETS — ROBECO — ESTABLISHED 1918

GLYCINE N.F. (Amino Acetic Acid)
MONOCHLORACETIC ACID
SODIUM CHLORACETATE

SOLE U. S. SELLING AGENTS
for
EXPLOITATIE MAATSCHAPPIJ STORK-CHEMIE N.V.
HENGELO, HOLLAND

ROBECO CHEMICALS, INC.

25 EAST 26th ST., NEW YORK 10, N. Y.

CABLE ADDRESS "RODRUG" N. Y. ALL CODES

MUrray Hill 3-7500

Sulphuric Acid From 50° to 65% Oleum | **Nitric Acid** | **Muriatic Acid** 18°-20°-22° | **Phenol Sulphonic Acid**

in Tank Cars—Tank Transports

ELECTROLYTE ACID
(Any Strength)

1 qt. Polyethylene Bottles—12 to the case—ICC Approved
5-pint Glass Bottles—2 to the case—ICC Approved

CORNWELL CHEMICAL CORP.

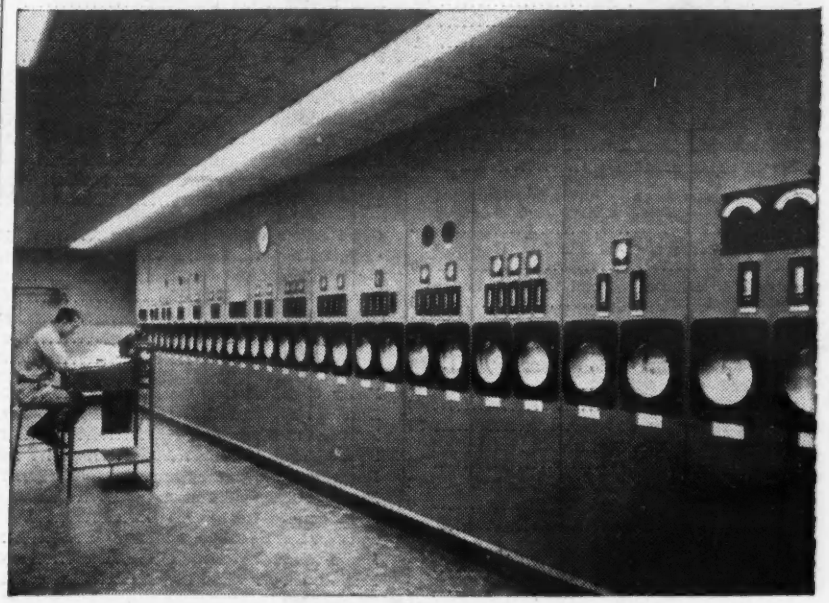
EXECUTIVE OFFICES...
24 EAST 38th ST., NEW YORK, N.Y.
MUrray Hill 3-0174

SALES OFFICES...Philadelphia, Pa.—Orchard 3-2088 • 744 Broad St., Newark, N. J.—Market 4-2776
Cornwells Heights, Pa.—Orchard 3-2077

Celanese*

ACETONE

in continuous supply . . . nation-wide distribution

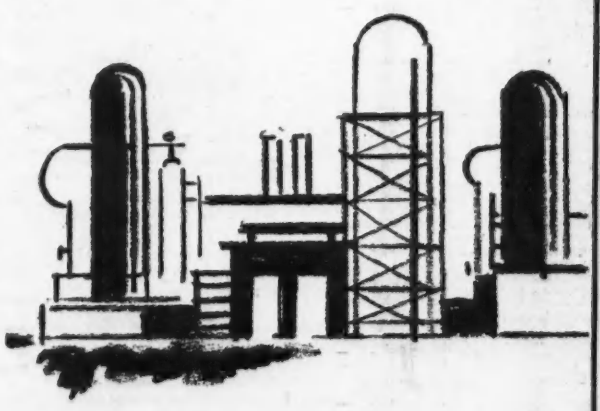


Control room at a Celanese plant, where petrochemical production of acetone is rigidly controlled to assure manufacturers and processors of continuous high volume, uniformity and purity of Celanese Acetone.

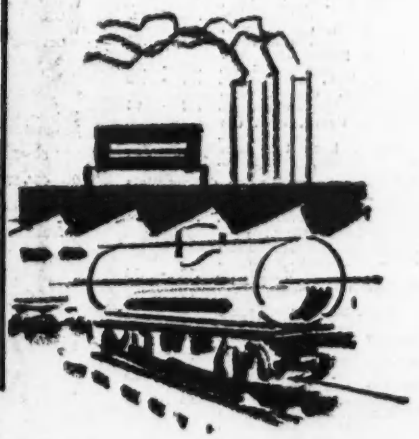
Celanese* CHEMICALS

*Reg. U.S. Pat. Off.

Celanese Corporation of America • Chemical Division • 180 Madison Avenue • New York 16



IRM WAXES



Prepared expressly to your specifications

Paraffin Waxes
Microcrystalline Waxes
Laminating Waxes
Dip Waxes
Barrier Waxes

All specifications required for micros and blends.

IRM

INDUSTRIAL RAW MATERIALS CORP.

575 Madison Avenue, New York 22, New York • Plants: Lyndhurst, New Jersey - Titusville, Pennsylvania - New Orleans, La.